

SCIENTIFIC
AMERICAN

Cumulative Index

1948-1978

**SCIENTIFIC
AMERICAN**

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*Index to the 362 issues from
May, 1948, through June, 1978*

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Preface

This *Cumulative Index* embraces, inclusively, all issues of SCIENTIFIC AMERICAN from May, 1948, (the first under the magazine's present editorial direction) through June, 1978.

References are by year, month and page of issue, in that order; thus, the entry "1954 Aug. p. 77" refers to page 77 of the August, 1954, issue. The Index consists of eight independent parts, each alphabetically arranged, as follows:

Index to Topics offers access to the subject matter covered in 2,964 articles and some 3,500 "Science and the Citizen" items published in 362 issues indexed. This is a rotated key-word index. That is, the topics covered in a given article or item are cited by "key words" (average of seven per article and two per item). The key words are entered together in a cluster, and each key word takes its turn as the first term in the cluster in its entry and reentry down through the alphabet of this Index. Thus:

DNA, double helix, X-ray crystallography, genetic code, structure of DNA	
resolved	1954 Oct. p. 54-61 [5]
double helix, DNA, X-ray crystallography, genetic code, structure of DNA	
resolved	1954 Oct. p. 54-61 [5]
genetic code, DNA, double helix, X-ray crystallography, structure of DNA	
resolved	1954 Oct. p. 54-61 [5]
X-ray crystallography, DNA, double helix, genetic code, structure of DNA	
resolved	1954 Oct. p. 54-61 [5]

In most cases, a secondary descriptive phrase, highlighting some aspect of the entry (in the example above: structure of DNA resolved) rides along with the rotating key words. Each entry is designed to serve, therefore, as a "mini-abstract" of the original.

Entries that begin with the same key word are listed in chronological order; articles are listed first, and "Science and the Citizen" items follow.

Articles are referenced by first and last page numbers (thus: 1978 June p. 60-72); "Science and the Citizen" items, by first page number (thus: 1978 June p. 74).

References to about one third of the articles close with a one- to four-digit number in brackets (in the example above: [5]); this is the Offprint number and identifies articles republished as Offprints by W. H. Freeman and Company (660 Market Street, San Francisco, California 94104).

Listing of Tables of Contents in chronological order permits ready identification, by titles and authors, of the articles cited in the foregoing index.

Index to Authors lists all authors of articles.

Index to Titles lists all articles by the first word in the title (exclusive of "The" or "A") and by the other key words in the title. "Underwater Archaeology in the Maya Highlands" thus appears under "Archaeology" and "Maya" as well as "Underwater."

Index to Book Reviews lists longer book reviews. The section is divided into three parts: Authors of books reviewed, Titles of the books and Reviewers.

Index to Mathematical Games lists the puzzles, games and diversions presented in the department since its inception in January, 1957, under editorship of Martin Gardner. It also includes Gardner's article on Flexagons (December, 1956) and the "twelve-ball" problem that cropped up in "The Amateur Scientist" in 1955.

Index to The Amateur Scientist lists the projects, experiments and demonstrations presented in this department from April, 1952, through February, 1976, (under the editorship of A. G. Ingalls until April, 1955, and thereafter under the editorship of C. L. Stong) and from July, 1977, through June, 1978, under the editorship of Jearl Walker.

Index to Proper Names lists the names of all persons mentioned in the articles or "Science and the Citizen" items and of places and institutions featured in a primary role.

The indexing was accomplished with collaboration of Excerpta Medica B. V., of Amsterdam; Infonet B. V., of Amsterdam, conducted the computer processing of the entries and composition of the pages.

THE EDITORS

November, 1978

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- tool and fire user 1960 May p 95
- hominid antiquity 1967 Mar. p 52
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schizophrenia 1967 Mar. p. 78-86 [505]
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allergic mechanisms in nervous disease 1949 July p. 16-19
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thymus role in producing antibodies 1962 Nov. p. 50-57 [138]
antibodies, antigen complement, immune response, lymphocytes, virus
antigens, virus disease, allergic reaction, immune-complex disease,
glomerulonephritis, lymphocytic choriomeningitis, serum sickness
1973 Jan. p. 22-31 [1263]
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cellular digestive organ, 'suicide bag' 1963 May p. 64-72 [156]
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lysosome implication in disease processes 1967 Nov. p. 62-72 [1085]
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regulation, computer science, mechanical, biological, social self-
regulation 1948 Nov. p. 14-19
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operational definition 1950 Feb. p. 48-51
feedback, artificial sensory organs, mechanical behavior, an imitation
of life 1950 May p. 42-45
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automatic control, self-regulation, information theory, feedback,
introduction to single-topic issue on automatic control
1952 Sept. p. 44-47
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diagnosis, Fourier analysis, toposcope display 1954 June p. 54-63
Turing machine, von Neumann machine, brain circuitry, computer
design 1955 Apr. p. 58-67
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self-reproducing machine, 'artificial living plants'
1956 Oct. p. 118-126
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machine models of molecular assembly 1959 June p. 105-114 [74]
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impulse, predation, Turing machine, mathematics in biology
1964 Sept. p. 148-164
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lymphocytes, pattern recognition, automatic analysis of white cells
1970 Nov. p. 72-82
cell sorting, fluorescence-activated technique 1976 Mar. p. 108-117
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science, automata theory, mechanical, biological, social self-
regulation 1948 Nov. p. 14-19
computer technology, digital computer, analogue computer, relay
computers, binary arithmetic, logic, computer memory, control
systems, status of 'mathematical machines' 1949 Apr. p. 28-39
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introduction to single-topic issue on automatic control
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feedback, control loop, servomechanisms, flyball governor, positive
feedback, negative feedback, ecological system, nervous system,
economic system, feedback concept 1952 Sept. p. 48-55
control systems, servomechanisms, actuators, frequency response,
pneumatic servomechanisms, hydraulic servomechanisms, control
systems 1952 Sept. p. 56-64
continuous processing, fluid dynamics, petroleum refinery, control
panel, automatic chemical plant 1952 Sept. p. 82-96
machine tool, batch process, digital-to-analogue conversion, numerical
instructions, automatic machine tool 1952 Sept. p. 101-114
computer, solid-state electronics, analog-to-digital conversion, digital
computer, analogue computer, the universal machine
1952 Sept. p. 116-130
information theory, statistics, thermodynamics, noise, redundancy,
digital storage media, analogue storage media, information
compression, information 1952 Sept. p. 132-148
productivity, capital-output ratio, labor force, economic and social
impact of automatic control 1952 Sept. p. 150-160
manipulators, remote control, robot, feedback, industrial manipulators
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of technological change, 1947-1958, input-output tables
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graphics, uses of computer in technology 1966 Sept. p. 176-188
- cargo handling, shipping, containerization, loading, air transport
1968 Oct. p. 80-88
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1969 June p. 112-120
- control systems, feedback, water clock, thermostat, windmills, flyball
governor, origins of feedback control 1970 Oct. p. 110-118
- computer technology, electric power generation, generator control,
power-system control 1974 Nov. p. 34-44
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production methods 1975 Feb. p. 22-29
computer technology, instructable machines, robot systems,
servomechanisms 1976 Feb. p. 76-86B
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control systems 1977 Sept. p. 180-190 [381]
impact assessed 1966 Mar. p. 54
automatic factory, on paper 1951 Sept. p. 58
automatic library, 'electronic selector' hunts references 1949 May p. 26
automatic manufacture, electronic equipment, Project Tinkertoy, modular
design 1955 Aug. p. 29-33
- automatic pilot, aircraft landing, blind landing, air transport, instrument
landing system, precision approach radar, ground-controlled
approach 1964 Mar. p. 25-35
- automatic research, cell analyser 1949 Sept. p. 30
- automatic synthesis, insulin, protein synthesis, amino acids, peptide bond,
'solid phase' method of synthesis, polystyrene beads
1968 Mar. p. 56-74 [320]
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instruments, control systems 1977 Sept. p. 180-190 [381]
- automation, *see*: automatic control
- automobile, railway, traffic patterns, cities, commutation, mass transit,
transportation, Bay Area Rapid Transit system as model for urban
transportation 1965 Sept. p. 162-174
electric automobile, battery, air pollution, weight, cost, performance of
electric automobile 1966 Oct. p. 34-40
progress in electrical propulsion 1966 Nov. p. 66
electric for short hauls 1967 May p. 58
- automobile design, technology history, automobile racing, Paris-Bordeaux
race of 1895 1972 May p. 102-111
airbag, automotive safety, seat belts, crashworthiness tests
1973 Feb. p. 78-86
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pollution control in Los Angeles 1964 Jan. p. 24-31 [618]
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design, high-octane fuel, mechanical vs chemical solutions for
premature combustion 1950 Feb. p. 16-19
Wankel engine, rotary engine, Tschudi engine 1969 Feb. p. 90-99
Carnot cycle, Diesel engine, isothermal combustion, Diesel's 'rational'
engine 1969 Aug. p. 108-117
air pollution, rotary engine, Wankel engine, auto engineering
1972 Aug. p. 14-23
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1973 Aug. p. 80-87
- free-piston 1956 June p. 66
fuel economy 1975 Nov. p. 56
- automobile fuel, ammonia, emission control 1967 Aug. p. 39
- automobile history, Airflow automobile, streamlining
1977 Aug. p. 98-106 [697]
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composite materials, materials technology, flywheels
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race of 1895 1972 May p. 102-111
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policy, air pollution, noise pollution, technology assessment
institutions proposed 1970 Feb. p. 13-21 [332]
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'corrugated' road surface, 'washboard' road surface
1963 Jan. p. 128-136
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1975 Jan. p. 34-44
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tests 1973 Feb. p. 78-86
model car 1957 Apr. p. 70
crash-proof locks 1962 July p. 60
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electrocardiography, learning voluntary control of autonomic
nervous system 1970 Jan. p. 30-39 [525]

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 learning 1969 Apr p 49
 autopilot, taught to stall 1953 Dec p 56
 autoradiography, DNA synthesis, bacterial chromosome, labeled thymine, incorporation in DNA chain, relation of template and new chain 1966 Jan p 36-44 [1030]
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 autosomes, chromosome, gene mapping, genetic disease, chromosomal anomalies 1971 Apr p 104-113 [1220]
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 ecology, energy cycle, biomass, solar energy, food chain, element abundance, heterotrophs, the ecosphere 1958 Apr p 83-92
 auxins, apical bud, leaf scission 1955 Nov p 82-89 [116]
 agronomy, plant growth, oak, gibberellin, function of plant growth hormone 1957 Apr p 125-134 [11]
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 adaptation, trees, plant hormones, tree structure, ax-head model, mechanical design of trees 1975 July p 92-102
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 avian, *see* bird, birds
 avian evolution, birds from dinosaur 1973 Aug p 44
 avian reproduction, ring dove, breeding cycle, sexual behavior, hormone, fertilization 1964 Nov p 48-54 [488]
 calcium metabolism, eggshell thinning, pollution, chornated hydrocarbons, DDT, dieldrin, insecticide, food chain, ecological effect of pesticides 1970 Apr p 72-78 [1174]
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 aviation, stratosphere, flight at high altitude 1952 Feb p 20-23
 'sound barrier', rocket engine 1953 Oct p 36-41
 heat barrier, supersonic flight, lift barrier 1953 Dec p 80-84
 traffic control in U S 1962 Jan p 60
 aviation industry, aeronautics, supersonic flight, commercial aircraft, aircraft design, sonic boom, technology and economics of supersonic transport 1964 June p 25-35
 aviation medicine, Bert, medical history, Paul Bert, 'father' of aviation medicine 1952 Jan p 66-72
 break-off phenomenon 1957 June p 78
 manned space flight 1959 Mar p 61
 aviators, Medieval and Byzantine claimants to title of first 1961 June p 90
 AWACS: airborne warning and control system aircraft
 AWACS, arms race, bombers, SALT, strategic weapons, military expenditures, anti-aircraft systems 1973 Aug p 11-19
 awards, Einstein and Stalin prizes 1951 May p 36
 ax-head model, auxins, adaptation, trees, plant hormones, tree structure, mechanical design of trees 1975 July p 92-102
 axe-handles, hickory, fences, smoked ham, hickory nuts, economic botany, forest, natural history, shagbark hickory 1948 Sept p 40-43
 axial-flow compressor, gas turbine, aircraft propulsion, centrifugal compressor, ducted fan, electric power generation 1953 Nov p 65-72
 axiom of choice, mathematics, set theory, non-Cantorian sets, Russell's paradox, Cantor, non-Euclidian geometry 1967 Dec p 104-116
 axiomatics, mathematics, Bourbaki, philosophy of science, science history, labors of the mathematical collective self-styled Bourbaki 1957 May p 88-99
 axis of rotation, physics, crystal structure, polygons polyhedra, philosophy of science, topological limits of physics 1953 Jan p 50-56

axon, neurology, nerve conduction, Schwann cell, axoplasm, membrane potential, perfusion technique, cell perfusion, structure of axonal tube, physiology of neural transmission, concentration gradients 1966 Mar p 74-82 [1]
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 axoneme, ATP, cell motility, cilia, flagella, microtubules, how cilia move, paramecium, sperm 1974 Oct p 54-52 [1]
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 B
 B-cells, antibody molecule, antigens, immune system, lymphatic system, lymphocytes, T-cells 1973 July p 52-60 [127]
 antibodies, bursa, cell differentiation, humoral immunity, T-cells, immune system, lymphocytes, thymus 1974 Nov p 58-72 [130]
 antibodies, cell membrane, histocompatibility, antigens, immune response, immunoglobulin, lymphocytes, T-cells 1976 May p 30-39 [1338]
 B vitamin, biotin, ATP, function of little-known B vitamin 1961 June p 139-141
 Babbage, computer, difference engine, analytical engine, digital computer, life and work of Charles Babbage 1952 Apr p 66-72
 babies, operant conditioning, learning pets, how to teach animals 1951 Dec p 26-29 [423]
 baboons, human evolution, social behavior, comparative psychology, social anthropology, Kung bushmen, sexual behavior, origin of society 1960 Sept p 76-87 [602]
 social behavior, comparative psychology, sexual behavior, baboon troops in their natural environment 1961 June p 62-71 [614]
 baby boom, U S census, urbanization, age-sex distribution, family size, central city, suburbs, U S census at 1960 1961 July p 39-45
 baby fat, obesity, pathological obesity 1973 Aug p 44
 background radiation, environmental pollution, ionizing radiation, nuclear medicine, atomic bomb test, introduction to single-topic tissue on ionizing radiation 1959 Sept p 74-83
 backswimmer, surface tension, water-strider, whirligig beetle, ecology, springtail, aquatic insect, insects of the water surface 1978 Apr p 134-142 [1387]
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 gene transformation, drug resistance, streptomycin, pneumococcus, recombinant DNA, biochemistry of Avery, McLeod and McCarty experiment 1956 Nov p 48-53 [18]
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 bacteriophage, conjugation gene recombination, recombinant DNA, mechanisms of heredity and infection in bacteria 1961 June p 92-107 [89]
 flies epidemiology, maggot, dysentery, virology, disease vector 1965 July p 92-99
 symbiosis, algal bloom, blue-green algae, simplest plants, resemblance to bacteria 1966 June p 74-81
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 ectoparasites, skin, fungi, lice, hair, human skin ecosystem 1969 Jan p 108-115 [1132]
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 chemical weapons biological weapons Vietnam war, arms race, CS gas, virus disease rickettsiae, tear gas herbicide, chemical-biological warfare 1970 May p 15-25 [1176]
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Precambrian rocks, prokaryotic cells, oldest fossils
1971 May p 30-42 [395]

antibiotic resistance, infectious disease, drug resistance, gene mutation,
plasmids, Rh factor, bacterial conjugation
1973 Apr p 18-27 [1269]

bacterial motility, flagella, 'twiddling', rotation of flagella
1975 Aug p 36-44

cell membrane, halobacteria, photosynthesis, rhodopsin, salt-loving
bacteria
1976 June p 38-46 [1340]

algae, legumes, nitrogen fixation, nitrogenase, genetic engineering,
Haber process, rhizobium, legumes, symbiosis, nitrogenase,
biological nitrogen fixation
1977 Mar p 68-81

bioluminescence, fish, flashlight fishes, symbiosis
1977 Mar p 106-114

barophilic bacteria, deep-sea environment, deep-sea microbes, Alvin
submersible
1977 June p 42-52 [926]

in crystalline array
1955 Jan p 44

algae, photoelectric effect
1964 Mar p 59

bacteria disrupted, synthesize proteins
1954 Oct p 49

bacterial cell, cell wall, bacterial metabolism, penicillin, polysaccharides,
glycopeptides, membrane
1969 May p 92-98

bacterial-cell surface, glycolyx, bacterial infection, infective specificity,
how bacteria stick
1978 Jan p 86-95 [1379]

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protoplasts bacteriophage, flagella, dissection of bacteria by
lysozyme
1960 June p 132-142

bacterial chromosome, autoradiography, DNA synthesis, labeled
thymine, incorporation in DNA chain, relation of template and new
chain
1966 Jan p 36-44 [1030]

bacterial conjugation, antibiotic resistance, bacteria, infectious disease,
drug resistance, gene mutation, plasmids, Rh factor
1973 Apr p 18-27 [1269]

bacterial cytoplasm, bacterial-cell wall, lysozyme, homeostasis,
protoplasts, bacteriophage, flagella, dissection of bacteria by
lysozyme
1960 June p 132-142

bacterial infection, antibiotics, aureomycin, virus disease, rickettsial
disease, 'broad spectrum' antibiotic
1949 Apr p 18-23

blood proteins, gammaglobulin, antibodies, immunology, tissue grafts,
agammaglobulinemia, hereditary immunological deficiency
1957 July p 93-104

endotoxins, exotoxins, toxins, bacterial toxin, effects of endotoxins
1964 Mar p 36-45

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stick
1978 Jan p 86-95 [1379]

bacterial magnets, magnetic-field tropism observed in bacteria
1978 Mar p 72

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glycopeptides, membrane
1969 May p 92-98

bacterial motility, bacteria, flagella, 'twiddling', rotation of flagella
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cell motility, chemotaxis, flagellar action, E.coli
1976 Apr p 40-47 [1337]

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status of new medical technology
1949 Aug p 26-35

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of endotoxins
1964 Mar p 36-45

tetanus, botulism paralysis, nerve impulse, inhibitory impulse
synapse, motor neuron, Clostridium tetani, Clostridium botulinum
1968 Apr p 69-77

plague bacillus Black Death respiration, electron transport,
mechanism of death by plague toxin
1969 Mar p 92-100

cholera, disease medical care, sanitation water supply, epidemiology
1971 Aug p 15-21

bacterial transformation, gene transformation Diplococcus pneumoniae,
extra-cellular activator of transformation competence
1969 Dec p 38-44

bacterial virus, *see* bacteriophage

bacteriology, caries dentistry, fluoridation new theory of tooth decay
1948 Oct p 20-23

tuberculosis tubercle bacillus biology of the germ
1955 June p 102-110

biological pest control agricultural pest insecticide, insect physiology,
virology, entomology living insecticides
1956 Aug p 96-104

caries, dentistry tooth enamel causes of tooth decay
1957 Dec p 109-116

mutation penicillin drug resistance
1961 Mar p 66-71

microorganisms PPLO, virus, electron microscopy, cytology, smallest
free-living cells
1962 Mar p 117-126 [1005]

antibiotic-resistant staphylococcus
1960 May p 95

bacteriophage, genetic exchange, sexual reproduction
1948 Nov p 46-51

virus disease, influenza virus, bacteriophage, poliomyelitis virus
antigen-antibody reaction, immunity, infection, host-specificity,
viruses in infection and in the laboratory
1951 May p 43-51

virus disease, influenza virus poliomyelitis virus, bacteriophage,
antigen-antibody reaction, immunity, infection, host-specificity,
viruses in infection and in the laboratory
1951 May p 43-51

genetics, reproduction, tracer experiments, DNA, protein coat
1953 May p 36-39

virus, life cycle, reproduction, provirus
1954 Mar p 34-37

virology, recombinant DNA, provirus, modified virus
1955 Apr p 92-98 [24]

bacteria, gene transduction recombinant DNA, bacterial gene
transduction by phage infection
1958 Nov p 38-43 [106]

bacterial-cell wall, lysozyme homeostasis, bacterial cytoplasm,
protoplasts, flagella, dissection of bacteria by lysozyme
1960 June p 132-142

bacteria, conjugation, gene recombination, recombinant DNA,
mechanisms of heredity and infection in bacteria
1961 June p 92-107 [89]

DNA, gene mapping, chromosome, mapping genes by induced and
spontaneous mutations
1962 Jan p 70-84 [120]

adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma
virus herpes virus, influenza virus, vaccinia virus, tobacco mosaic
virus, structure of viruses
1963 Jan p 48-56

gene mapping, amber mutants, virus particles
1965 Feb p 70-78 [1004]

virus structure, polyhedra, virus shell, assembly of T4 subunits from
core out
1966 Dec p 32-39 [1058]

virus structure, T4 virus, DNA, mutation, morphogenesis, test-tube
reconstruction of viral components
1967 July p 60-74 [1079]

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Salmonella
1969 Nov p 120-124 [1161]

electrical attachment
1953 Aug p 44

one-molecule DNA virus
1958 July p 52

pili
1967 Dec p 55

bacteriophage structure, gene expression, latent viruses, provirus, virus
action, coexisting viruses, viral genes in host chromosome
1976 Dec p 102-113 [1347]

badger, dog, horse cheetah, locomotion, deer, comparative anatomy,
running, how animals run
1960 May p 148-157

Baffin Island, energy cycle, Eskimo, hunting societies, food chain, seal,
power, ecosystem
1971 Sept p 104-115 [665]

bags under the eyes, J.A.M.A. colloquy
1951 May p 38

baking, yeast, brewing, riboflavin synthesis, cryptococcal meningitis,
fermentation, cell physiology, yeasts, useful and noxious
1960 Feb p 136-144

balancing rock, capstones explained
1974 Mar p 46

ball lightning, nuclear fusion, gas plasma, ionization, Kapitza theory, Hill
theory
1963 Mar p 106-116

ballistic missile, *see* atomic weapons, ICBM, SLBM and the like

ballistics, shock waves, shadow photography, speed of sound, Mach
cones, aerodynamics
1949 Nov p 14-19

caloric heat theory, science history, oven, Rumford heat as motion
Benjamin Thomson, biography
1960 Oct p 158-168

balloon astronomy, Sun, ultraviolet radiation
1959 May p 52-59

spectrometry, Venus, infrared astronomy
1965 Jan p 28-37

solar observatory
1957 Sept p 107

balsam, forestry, spruce, climax ecosystem birch, climax forest of
Northeast U.S.
1948 Nov p 20-23

balsam-fir factor, insecticide, insect hormones, insecticide resistance,
juvenile hormone, species specificity, DDT, third-generation
pesticides
1967 July p 13-17 [1078]

Bambuti, Pygmies, Congo, social anthropology, symbiotic relationship of
jungle Pygmies and pastoral-village peoples
1963 Jan p 28-37 [615]

bandwidth, carrier-wave modulation, coaxial cable, communication
technology, electromagnetic spectrum fiber optics radiowave,
communication channels noise
1972 Sept p 98-113

Bantu language, Africa, Early Iron Age culture, language diffusion,
linguistics
1977 Apr p 106-114

barber paradox, antinomy, paradox, mathematical logic, logic,
undecidable questions Gödel's proof, Grelling's paradox,

- Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr. p 84-96
- symbolic logic, Dodgson, mathematics, paradox 1972 July p 38-46
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- population growth assessed 1971 Oct p 40
- family planning in the People's Republic in U S S R. 1972 Nov p 50
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- ethics 1973 Nov p 49
- industrial societies approach zero population growth 1974 Sept p 64
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1973 Mar p 15-23 [683]
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1974 Sept p 49-51
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1974 Sept p 145-159
- nationalist policy in U.S.S.R.
1952 Oct p 41
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1965 June p 56
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1965 Apr p 49
- U.S., zero population growth
1971 Apr p 50
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1972 Oct p 46
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1969 Oct p 76-84 [1158]
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1967 Jan p 41-52
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1951 Jan p 30
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1965 Apr p 66-78
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1975 Apr p 96-105
- BL Lacertae objects, galaxies, quasars, radio astronomy
1977 Aug p 32-39 [372]
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1952 Mar p 47-54 [205]
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1954 Sept p 58-63
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1964 Feb p 114-121 [619]
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1969 Mar p 92-100
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1967 Nov p 88-98
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1972 May p 38-46
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1972 July p 26-37
- gravitational energy, pulsar, quasars, rotational energy, radiation in universe
1973 Feb p 98-105
- binary stars, Cygnus X-1, black hole search
1974 Dec p 32-43
- interstellar gas, magnetohydrodynamics, neutron stars, pulsar, stellar evolution, supernovae, X-ray sources
1975 Dec p 38-46
- cosmic radiation, gamma-ray astronomy, neutron stars, pulsar, satellite astronomy, Cygnus X-1
1976 Oct p 66-79A
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1977 Jan p 34-40 [349]
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1977 Oct p 42-55 [385]
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1970 Oct p 54
- 'collapsar', Epsilon Aurigae
1971 Mar p 46
- candidate in Cygnus
1973 Nov p 48
- variable X-ray sources
1976 Aug p 44B
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1961 Apr p 84
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1967 Apr p 21-27 [633]
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1978 May p 52-63 [932]
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1950 June p 20-24
- blackpoll warbler, bird migration, bird navigation, celestial navigation, indigo bunting, planetarium experiments
1975 Aug p 102-111 [1327]
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- bladder stones, crystal structure, lithiasis, kidney calculi, X-ray diffraction, gallstones, urinary calculi
1968 Dec p 104-111
- comparative incidence in time and place
1968 June p 46
- blast furnace, steel production, iron ore, smelting, furnace smelting under pressure
1948 May p 54-57
- science history, technological innovation, windmills pumps bellows medieval technology, medieval uses of the air
1970 Aug p 92-100 [336]
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1953 Apr p 94-102
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1970 Dec p 44-54 [1214]
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1957 Nov p 79-88 [103]
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1953 Mar p 88-94
- blight, antibiotics plant disease rot, smut, wilt disease mold, mildew
1955 June p 82-91
- blind landing, aircraft landing, automatic pilot, air transport, instrument landing system precision approach radar, ground-controlled approach
1964 Mar p 25-35
- blindness, premature infants, retrolental fibroplasia, epidemiology, oxygen infant mortality, 'blind babies'
1955 Dec p 40-41
- vision, glaucoma, iridectomy, human eye
1959 Aug p 110-117
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1977 June p 100-107 [1361]
- type made tactile for 'reading'
1974 Jan p 51
- phosphores, 'sight' for blind
1974 Mar p 45
- block fault, geology, tectonic processes, mathematical model, scaling, geosyncline, experimental geology
1961 Feb p 96-106
- 'block portraits', visual perception, information theory, computer graphics, computer enhancement, pattern recognition, recognition of faces
1973 Nov p 70-82
- blood, comparative physiology, ice fish, oxygen, hemoglobin, Antarctic fish without red cells or hemoglobin
1965 Nov p 108-114
- 'anomalous' water, 'biological' water, hemoglobin, water, membrane permeability, osmosis erythrocyte, van 't Hoff law
1971 Feb p 88-96 [1213]
- see also frozen blood cells
- blood banks, blood plasma, blood fractionation, erythrocyte, leukocyte, platelets centrifuge, blood transfusion
1954 Feb p 54-62
- blood-brain barrier, epilepsy, brain metabolism, neurology, neurophysiology, physiology of the barrier and its reinforcement
1956 Feb p 101-106
- blood cell analysis, automatic cell sorting computer analysis, lymphocytes, pattern recognition, automatic analysis of white cells
1970 Nov p 72-82
- blood circulation, Harvey, science history, life and work of William Harvey
1952 June p 56-62
- capillary bed, mesentery, arteriole, venule, cardiovascular system
1959 Jan p 54-60
- exercise adaptation, breathing, heart, hemoglobin, human physiology
1965 May p 88-96 [1011]
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1951 Mar p 18-21
- platelets, hemagglutination, hemostasis, role of platelets in clotting mechanism
1961 Feb p 58-64
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1962 Mar p 60-66
- blood disorders, anemia, brain damage, environmental toxins, kidney disorder, lead poisoning, nerve disorders
1971 Feb p 15-23 [1211]
- blood donors, Red Cross campaign
1948 Sept p 28
- blood fractionation, poliomyelitis, gammaglobulin, epidemiology, immunity, vaccine
1953 July p 25-29
- blood plasma, erythrocyte, leukocyte, platelets, centrifuge, blood transfusion, blood banks
1954 Feb p 54-62
- more fractions on market
1949 Sept p 32
- more by-products
1950 Sept p 51
- portable fractionator
1951 Sept p 54
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1968 Nov p 46-52 [1126]
- genetic drift, mutation, consanguinity, gene pool, evolution, population genetics, Parma Valley, Italy
1969 Aug p 30-37
- blood pigments, hemoglobin, hemocyanin, chlorocruorin
1950 Mar p 20-22
- blood plasma, blood fractionation, erythrocyte, leukocyte, platelets, centrifuge, blood transfusion, blood banks
1954 Feb p 54-62
- collagen, cell-surface antigens, glycoproteins, interferon, protein molecule
1974 May p 78-86 [1295]

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- self-donated blood 1972 Jan p 47
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- blood typing, Rh factor, human evolution, Rh negative gene, Ro gene, race 1951 Nov p 22-25
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- parentage, forensic medicine 1954 July p 78-82
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- pharaohs' relationship 1969 Dec p 55
- blood-vessel bank, in New York City 1951 May p 36
- blowfly, taste receptors, chemoreceptor 1961 May p 135-144
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- body-organ reversal, ciliary immobility 1976 Sept p 68
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- sleep biological clock, waking 1952 Nov p 34-38 [431]
- hummingbird metabolism, thermoregulation hibernation surface-to-volume ratio 1953 Jan p 69-72
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 Kansas law 1971 Dec p 40
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 immigration of scientists and engineers 1966 July p 49
 supplies 45 percent of postdoctorals in U S 1970 Jan p 52
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 brain size, cephalization index, endocranial casts, intelligence, paleoneurology 1976 Jan p 90-101 [568]
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1967 Feb p 62-72 [504]
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1949 Dec p 29
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1965 Jan p 52
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1963 June p 110-120
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1963 Sept p 208-220
- bread, kneading and baking by continuous process
1966 Aug. p 44
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1968 June p 46
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1953 Mar p 88-94
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1959 Aug. p 74-84 [828]
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1956 Oct p 74
- carotid bodies
1974 June p 51
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1949 July p 52-55
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1960 Jan p 138-148
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1962 Dec p 120-130
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1963 Oct p 27-38
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1963 Dec p 92-106
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1965 May p 88-96 [1011]
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1966 Feb p 56-68 [1034]
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1967 Jan p 25-31 [503]
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1967 May p 34-43
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1968 Aug. p 66-74 [1123]
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1969 Aug. p 100-106 [1156]
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1971 Dec p 72-79 [1238]
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1974 Nov p 96-105 [1307]
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1952 Dec p 58-60
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1954 Dec p 33-39
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1955 Oct p 56-68
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1958 Mar p 29-35
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1960 Jan p 82-94
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1967 May p 25-33
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1970 Nov p 13-21 [339]
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1977 Mar p 26-35
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1978 Apr p 45-57 [3004]
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1950 Jan p 28
- deferred by A E C
1950 June p 27
- at Arco Idaho
1952 Feb p 34
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1952 Nov p 42
- breaking even
1953 July p 40
- nitrogen use of heavy nitrogen in reactor
1956 Feb p 52
- plutonium fueled
1959 July p 65
- uranium ore resources
1961 Mar p 82
- Atomic Energy Commission program
1963 Jan p 58
- reactor safety
1967 Nov p 59
- uranium-thorium cycle
1968 June p 44
- British and French success
1976 May p 50
- program in U S
1977 Mar p 58
- nuclear energy and weapons proliferation
1978 May p 81
- breeding cycle, avian reproduction, ring dove, sexual behavior, hormone, fertilization
1964 Nov p 48-54 [488]
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1959 June p 90-100
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1960 Feb p 136-144
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1962 Mar p 94-104
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1973 July p 74-85
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1954 Nov p 60-71
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1966 Oct p 78-84 [1053]
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1968 Sept p 120-136
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1970 Apr p 32-42
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1970 Nov p 30-38
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1977 Feb p 39-46 [692]
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1972 Apr p 76-83 [1246]
- broken English, humor, language, physics, jocular physics, tribute to Niels Bohr
1956 Mar p 93-102
- bromide poisoning, patent medicine hazard
1950 Aug p 30
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1961 Oct p 49-57 [612]
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1963 Nov p 96-108
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1955 Nov p 90-98
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1960 Jan p 52-59
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1960 Jan p 52-59
- burial site, Classical archeology, Greek colony, Bahrain, Sumerian-Indian culture link
1960 Oct p 62-71
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1977 Oct p 122-131 [699]
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1959 Aug. p 70
- arsenic bronze
1967 Apr p 52
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1964 Oct p 36-45
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 neutrino beam, particle accelerator, positron 1973 Aug p 30-38
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 1955 Mar p 44-48
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 1956 June p 131-138
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 1958 July p 25-31
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 sod hut, adobe house, hogan, stilt house 1960 Dec p 134-144
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 archeology, shipwreck of 17th century 1971 Aug p 22-33
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 1970 Oct p 42-50
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 fuel combustion, biosphere, atmosphere, carbon dioxide
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 science, logician's point of view 1965 Oct p 44-54
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 1950 Aug p 32-41 [46]
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 formation, light 1968 Sept p 96-108
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 Plan, water supply, Israel, Jordan 1965 Mar p 23-31
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 leukemia 1964 May p 88-96
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 medicine 1959 Sept p 164-176
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 medicine, chemical imitation of radiation injury
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 action, Wilson's disease, metal poisoning, heavy metal poisoning,
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 associated virus' capacitates 'defective' Rous sarcoma virus
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 sociology 1969 Dec p 17-25 [524]
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 Onandaga tribe 1971 Feb p 32-42 [658]
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 Tower, truss bridge, steel frame construction, curtain wall
 1974 Feb p 92-105
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 1952 Nov p 76-84
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reactive intermediates 1976 Feb p 101-113
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mucus, saccules 1969 Feb p 100-107 [1134]
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tryptophan, feedback 1974 Feb p 84-91 [1291]
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sunspots, dendrochronology 1977 May p 80-92 [925]
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prevention, increased incidence of cancer sought in environmental
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disease, effects of smoking 1962 July p 39-51
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digitoxin, history of digitalis 1965 June p 110-119
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coronary occlusion, operation of cardiac pump 1957 May p 74-87 [62]
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1967 Mar p 32-37 [1067]
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patent ductus arteriosus, technology and technique of open-heart
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1952 Nov p 76-84
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mathematics history, number concepts, ordinal numbers
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1950 Jan p 14-17
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kidney disorder, adrenal gland 1949 Mar p 20-23 [4]
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disease damage 1961 Apr p 88-104
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coronary occlusion, diet, lipids, plaque, artery wall
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1950 Jan p 14-17
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1962 Oct p 48-56
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transport 1968 Oct p 80-88
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chimpanzees, feeding behavior, Gombe National Park, Tanzania
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aromatic compounds 1950 Oct p 40-43
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phototropism, bioluminescence, sunlight, life and light
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diode laser, laser, heterostructure lasers, light-emitting
semiconductor, solid-state electronics 1971 July p 32-40
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electromagnetic spectrum, fiber optics, radio wave, communication
channels, bandwidth, noise 1972 Sept p 98-113
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Descartes, Rene Descartes, biography 1959 Oct p 160-173
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campaign 1978 Jan p 110-120 [704]
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1955 Feb p 84-91
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secretion composition and synthesis of cow's milk
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200 radio stars counted, some speculation on their nature
1953 Jan p 17-21
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construction, 1000 BC proto-castles in Sardina 1959 Dec p 62-69
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formation, brain waves, paradoxical sleep, REM sleep, the states of
sleep 1967 Feb p 62-72 [504]
cat color, genetic variation, human migration, gene mutation, population
genetics, cline maps, Hardy-Weinberg equilibrium
1977 Nov p 100-107 [1370]
CAT scan: computer assisted tomography
CAT scan, computer algorithms, computer-assisted imaging, image
reconstruction, computer graphics, medical care, tomography
1975 Oct p 56-68
catalysis, enzymes, digestion, respiration, fermentation, lock-and-key
theory, science history 1948 Dec p 28-39
air pollution, combustibility, fly ash, dust storms, metallurgy, fine
particles 1950 Dec p 50-53
polymers, materials technology, industrial chemistry, stereoisomers,
synthesizing giant molecules 1957 Sept p 98-104
polymers, materials technology, industrial chemistry, stereoisomers,
synthesizing giant molecules 1957 Nov p 98-104
enzyme-substrate complex, enzymes, dialysis 1959 Aug p 119-125
lithium, polymerization, stereoisomers, promotion of polymerization
by lithium 1963 Jan p 88-102
corona discharge, free radicals, ozone, polymerization, corona
chemistry, water purification, hydrocarbon cracking
1965 June p 90-98
chemical reaction, chemical kinetics, allosteric enzymes, proton
transfer, enzymes, chemical equilibrium, relaxation methods in
chemistry 1969 May p 30-41
chemical reaction, industrial processes, petroleum cracking
1971 Dec p 46-58
catalytic polymerization, polyethylene, polymers, thermoplastic polymers,
properties, production, economics of first 1,000 million-pound
plastic 1957 Sept p 139-152
polymers, 'stereoregular' polymers, isotactic polymers, polyethylene,
polypropylene, precisely constructed polymers
1961 Aug p 33-41 [315]
catalytic proteins, enzyme action, protein-cutting enzymes, proteolytic
enzymes, serum proteins, chymotrypsin, elastase, trypsin
1974 July p 74-88 [1301]
cataract, eye lens, retina, etiology, course and treatment of cataract
1962 Mar p 106-114
aging, eye lens, human eye, vision 1975 Dec p 70-81
catastrophe theory, discontinuous phenomena, mathematical model,
topology 1976 Apr p 65-83
to describe discontinuous processes 1976 Mar p 60D
'catastrophism', fossil record, species extinction, natural selection,
glaciation, crises in the history of life 1963 Feb p 76-92 [867]
catecholamines, acetylcholine, adrenalin, dopamine, drug effects, nerve
physiology, neurotransmitters, noradrenaline
1974 June p 58-71 [1297]
catenane, chemical topology, topological isomer, cyclic molecules,
molecular structure, ring molecules, linking and knotting of ring
molecules 1962 Nov p 94-102 [286]
formation of hydrocarbon rings 1960 Nov p 92
caterpillars, birds, camouflage, mimicry, behavioral adaptation, defense
by color 1957 Oct p 48-54
catfish, hyla, chameleon, skin color, chromatophores, how animals
change color 1952 Mar p 64-67
walks and breathes air 1969 Jan p 50
catharsis, aggression, violence, delinquency, motion picture film,
television, effects of observing filmed violence
1964 Feb p 35-41 [481]
cathode-ray tube, electronics, electron tubes, amplifiers, communication
technology, rectifiers electron optics, communication, power,

- thermionic emission, state of the technology 1950 Oct p 30-39
- computer technology, computer displays, information theory, light pen, computer graphics, rand tablet, computer graphics and man-machine interface 1966 Sept p 86-96
- electronic typesetting, printing, photographic typesetting, digital computer, mechanical composition, computer applications 1969 May p 60-69
- Crookes tube, oscilloscope, vacuum tube, Ferdinand Braun's invention 1974 Mar p 92-101
- cationic detergent, synthetic detergents, anionic detergent, surfactant, nature and action of synthetic detergents 1951 Oct p 26-30
- catnip, insect repellent 1965 Feb p 54
- cattle, animal husbandry, dairying, Zebu cattle, European cattle, selective stock breeding 1958 June p 51-59
- biological pest control, screw worm fly, X-ray, sterilization, pest control, eradication of the screw worm fly 1960 Oct p 54-61
- animal husbandry, Karimojong, subsistence herding, Uganda 1969 Feb p 76-89
- beetle, coprid beetles, dung beetles 1974 Apr p 100-109
- a disease called 'X' 1948 Dec p 27
- synthetic diet 1966 Aug p 42
- causation, chance, probability, odds, calculus of chances, philosophy of science, logician's point-of-view* 1965 Oct p 44-54
- cavalry, Mongol conquests, war, Chingis Khan, frontier history, nomadic civilization, Chingis Khan, biography 1963 Aug p 54-68
- cave art, cave paintings, Paleolithic archeology, sculpture, Lascaux, Altamira 1968 Feb p 58-72
- cave bear, bears, Ice Age, extinction mechanism 1972 Mar p 60-72
- cave dwellers, Peru, stone tools, human evolution, Ayacucho site 1971 Apr p 36-46
- cave paintings, Paleolithic Europe, Cro Magno art, Magdalenian, Aurignacian-Pengordian 1953 Aug p 30-33
- cave art, Paleolithic archeology, sculpture, Lascaux, Altamira 1968 Feb p 58-72
- caves, ecology, degenerative evolution 1955 May p 98-106
- cavitation, droplet-levitation technique, liquids, negative-pressure concept, tensile strength, surface tension 1972 Dec p 58-71
- C.E.D.: Committee for Economic Development
- C.E.D. recommendations, Congressional role in arms policy 1974 Oct p 55
- Cedros Trough, Pacific Ocean, earth crust, Acapulco trench, Tonga Trench, ocean floor 1955 Nov p 36-41 [814]
- celestial energy, cosmological 'hangups', energy cycle, power, radiation energy, entropy per unit energy, gravitational energy, stellar evolution, thermonuclear energy 1971 Sept p 50-59 [662]
- celestial maser, radio astronomy 1966 Jan p 48
- celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102-111 [1327]
- by radio sextant 1959 Apr p 70
- celibacy, birth control, disease, founding institutions, infanticide, Malthusian doctrine, marriage age, population growth, population control in Europe 1750-1850 1972 Feb p 92-99 [674]
- cell, virology, electron microscopy, viruses inside cells 1953 Dec p 38-41
- collagen, elastin, keratin, myosin, fibrin, polymers, polymers in living cells 1957 Sept p 204-216 [35]
- amoebae, cytology, sol-gel reaction, high pressure, effect of high pressure on cellular activity 1958 Oct p 36-43
- aging, fibroblasts, mitosis, cell culture, somatic cells, DNA replication, experiments in aging 1968 Mar p 32-37 [1103]
- microsurgery, laser, physiology, laser lesions, cell organelle 1970 Feb p 98-110 [1170]
- cell aggregation, Volvox, metazoa, between single-celled and multi celled organisms 1950 May p 52-55
- tissue differentiation, cell 'recognition', cytology, embryonic development, how cells associate 1961 Sept p 142-165
- cell differentiation, heart cells, heart contraction, myogenic rhythm, rat cardiac cells in vitro 1962 May p 141-152
- marine organisms, Mesozoa, multicellular organisms 1972 Dec p 94-101 [1262]
- cell analogy, termite, social insect, behavioral adaptation, insect behavior 1953 May p 74-78
- cell anatomy, spermatozoon, ovum, virus, science history, cytology, muscle cell plant cell, connective tissue cell, introduction to single-topic issue on the living cell 1961 Sept p 50-61 [90]
- cell communication, central nervous system, nerve conduction, ganglion reflexes, neuroreceptors, retina, nerve impulse, neurotransmitters, neural synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept p 209-220 [98]
- adrenal gland, ACTH, pituitary gland, molecular structure of ACTH relation to function 1963 July p 46-53 [160]
- genetic code, communication, nerve impulse, hormonal action, metabolic information 1972 Sept p 42-51 [1257]
- cell culture, clone, HeLa cancer cells, somatic cells, tissue culture, single human cells 1957 Aug p 91-100 [33]
- muscle tissue, embryonic cells, cell differentiation, clone, origin of muscle in embryonic development 1964 Aug p 61-66
- aging, fibroblasts, mitosis, somatic cells, cell, DNA replication, experiments in aging 1968 Mar p 32-37 [1103]
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- embryonic development, blastula, gastrula, fertilization ectoderm mesoderm, endoderm, embryological 'organizer', science history, review of classical embryology 1957 Nov p 79-88 [103]
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- Hydra, sexual reproduction, asexual reproduction, growth regulation carbon dioxide as 'sex gas' 1959 Apr p 145-156
- amoebae, social amoebae, slime mold, Dictyostelium cell aggregation, acrasin 1959 Dec p 152-162
- tissue specialization, 'lampbrush' chromosome, embryonic development, zygote, fertilization, ovum, clone, cytology, how cells specialize 1961 Sept p 124-140
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- muscle tissue, embryonic cells, cell culture, clone, origin of muscle in embryonic development 1964 Aug p 61-66
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- embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136]
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- cell culture, cell-surface antigens, immune response, immunoglobulin lymphocytes 1973 June p 82-91 [1275]
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- regeneration, biological form, cellular polarity, embryonic development, Hydra, morphogenesis morphogens 1974 Dec p 44-54 [1309]
- regeneration, cockroach, embryo graft experiments, embryonic development, newt, biological form 1977 July p 66-81 [1363]
- cell division, *see* mitosis, meiosis
- cell evolution, chloroplast mitochondria, symbiosis, cell organelle, DNA prokaryote origin protein synthesis, plastids, extra-nuclear genetic activity in cell 1970 Nov p 22-29 [1203]
- cell organelle, chloroplast, endosymbiosis, eukaryotic cells mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella plastids 1971 Aug p 48-57 [1230]
- cell-free system, DNA synthesis virus π X 174, DNA polymerase, activated nucleotides first test-tube synthesis of biologically active DNA 1968 Oct p 64-78 [1124]
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- cell hybridization, cell culture, cell differentiation, hybrid cells, Sendai virus, gene mapping mouse-rat, mouse-human hybrid cells in laboratory 1969 Apr p 26-35 [1137]
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1978 May p 140-152 [1388]
- cell life cycle, ascites tumor, isotopes, radioautography, cellular
autobiography 1963 Aug p 103-110 [165]
- cell membrane, ion potential, nerve impulse, biological role of potassium
1949 Aug. p 16-21
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'powerhouse of the cell' 1957 July p 131-140 [36]
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action of insulin 1958 May p 99-106
- pores, erythrocyte 1960 Dec p 146-156
- pinocytosis, cytology, cell metabolism, ingestion by outer membrane
1961 Apr p 120-130
- active transport, passive transport, pinocytosis, phagocytosis, cytology,
osmosis, fertilization, functions of cell membranes
1961 Sept p 167-180 [96]
- electron microscopy, endoplasmic reticulum, myelin sheath,
mitochondria, nuclear membrane, electron microscope study of
membranes in cell 1962 Apr p 64-72 [151]
- kidney tubule, sodium pump, membrane potential, active transport,
biological pumps 1962 Aug p 100-108
- phospholipids, phosphatidic acid cycle, nerve cells, cell secretion,
membrane transport potential 1965 Oct p 78-86 [1022]
- ATP, mitochondrion, glycolysis, enzymes, oxidative phosphorylation,
cell metabolism, mitochondrial membrane
1968 Feb p 32-39 [1101]
- bacteriophage, receptor specificity, bacterial receptor sites, O antigen,
Salmonella 1969 Nov p 120-124 [1161]
- intercellular communication, salivary gland, epithelium, molecular
signals, membrane permeability, junctions in cell membrane
1970 May p 78-86 [1178]
- enzymes, artificial membranes, enzyme action, enzymes as industrial
catalysts 1971 Mar p 26-33 [1216]
- membrane lipids, membrane permeability, phospholipids, membrane
proteins, active transport 1972 Feb p 30-38 [1241]
- immune response, organ transplant, tissue grafts, tissue typing, self-
marker hypothesis 1972 June p 28-37 [1251]
- mitosis, mitotic spindle, cell reproduction, chromosome replication, cell
life cycle 1974 Jan p 54-64 [1288]
- lipid molecules, membrane proteins, membrane structure, active
transport 1974 Mar p 26-33 [1292]
- cell secretion, endoplasmic reticulum, exocytosis, membrane fusion,
fluid-mosaic model of membrane 1975 Oct p 28-37 [1328]
- ATP, colicine, membrane energetics, active transport, E. coli
1975 Dec p 30-37 [1332]
- antibodies, histocompatibility, antigens, immune response,
immunoglobulin, lymphocytes, B-cells T cells
1976 May p 30-39 [1338]
- bacteria, halobacteria, photosynthesis, rhodopsin, salt-loving bacteria
1976 June p 38-46 [1340]
- agglutination response, cancer, immunology, lectins, proteins
1977 June p 108-119 [1360]
- ATP, oxidative phosphorylation, active transport, mitochondrion,
chloroplast, formation of the energy-exchange molecule in the cell
1978 Mar p 104-123 [1383]
- cell junctions, the three kinds of cell junction
1978 May p 140-152 [1388]
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- cell metabolism, cell organelle, mitochondria metabolism, enzymes cell
membrane, 'powerhouse of the cell' 1957 July p 131-140 [36]
- ATP, citric acid cycle, mitochondrion, mitochondrion as site of
biological oxidation 1958 July p 56-62
- cell membrane, pinocytosis cytology, ingestion by outer membrane
1961 Apr p 120-130
- ATP, chloroplast, mitochondrion photosynthesis, glucogenesis citric-
acid cycle, glycolysis, oxidative phosphorylation cytology, cellular
transformation of energy 1961 Sept p 62-73 [91]
- ATP, mitochondrion glycolysis cell membrane, enzymes oxidative
phosphorylation mitochondrial membrane
1968 Feb p 32-39 [1101]
- ACTH ATP, glucogenesis glycolysis hormone, epinephrine, cyclic
AMP, activation of cyclic AMP by hormones
1972 Aug p 97-105 [1256]
- cell motility, amoebae phagocytosis cytoplasmic streaming col-gel
reaction front contraction theory of amoeboid motion
1962 Feb p 112-122 [182]
- calcium-ion activator, cell shape, embryonic development,
microfilaments, microtubules 1971 Oct p 76-82 [1233]
- ATP, axoneme, cilia, flagella, microtubules, how cilia move,
paramecium, sperm 1974 Oct p 44-52 [1304]
- bacterial motility, chemotaxis, flagellar action, E. coli
1976 Apr p 40-47 [1337]
- wound healing, cell tracks, embryonic development, tubulin, mitotic
apparatus, cell motion made visible to naked eye
1978 Apr p 68-76 [1386]
- cell nucleus, cytosurgery, micromanipulator, on transplanting nuclei
1952 Apr p 58-64
- cytoplasm, cell organelle, chromosome, cell physiology, RNA, DNA,
endoplasmic reticulum, cytology, nuclear control of cell
1960 Jan p 126-136
- Acetabularia, giant cells, mermaid's wineglass, cytoplasm, algae, giant
cells in study of nucleus-cytoplasm interaction
1966 Nov p 118-124 [1057]
- chromatin, chromosomal proteins, DNA, gene regulation, histones,
nucleoproteins, oxidative phosphorylation
1975 Feb p 46-57 [1315]
- see also spermatozoon nucleus
- cell organelle, mitochondria, metabolism, enzymes, cell metabolism, cell
membrane, 'powerhouse of the cell' 1957 July p 131-140 [36]
- cell nucleus, cytoplasm, chromosome, cell physiology, RNA, DNA,
endoplasmic reticulum, cytology, nuclear control of cell
1960 Jan p 126-136
- microsurgery, laser, cell, physiology, laser lesions
1970 Feb p 98-110 [1170]
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synthesis, plastids, cell evolution, extra nuclear genetic activity in
cell 1970 Nov p 22-29 [1203]
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mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella,
plastids 1971 Aug p 48-57 [1230]
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- ribosome, RNA, protein synthesis, structure of the ribosome
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axoplasm, membrane potential perfusion technique, structure of
axonal tube, physiology of neural transmission, concentration
gradients 1966 Mar p 74-82 [1038]
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RNA, DNA, endoplasmic reticulum, cytology, nuclear control of cell
1960 Jan p 126-136
- baking, yeast, brewing riboflavin synthesis, cryptococcal meningitis,
fermentation yeasts, useful and noxious 1960 Feb p 136-144
- aging, gerontology, life expectancy, manifestations of aging
1962 Jan p 100-110
- cell receptors, endocrine hormones, gene regulation, hormonal action,
protein synthesis, steroid hormones 1976 Feb p 32-43 [1334]
- cell 'recognition', cell aggregation, tissue differentiation, cytology,
embryonic development, how cells associate 1961 Sept p 142-165
- cell reproduction, mitosis, mitotic spindle, cell membrane, chromosome
replication cell life cycle 1974 Jan p 54-64 [1288]
- see also chromosome replication, meiosis, mitosis
- cell secretion, cell membrane, phospholipids, phosphatidic acid cycle,
nerve cells membrane transport potential 1965 Oct p 78-86 [1022]
- lactogenesis milk, mammary gland, casein, hormonal action,
composition and synthesis of cow's milk 1969 July p 58-68
- cell membrane endoplasmic reticulum, exocytosis membrane fusion,
fluid mosaic model of membrane 1975 Oct p 28-37 [1328]
- cell shape, calcium-ion activator, cell motility, embryonic development
microfilaments, microtubules 1971 Oct p 76-82 [1233]
- cell sorting, automatic cell sorting, fluorescence activated technique
1976 Mar p 108-117
- cell structure, wood cellulose lignin, grain structure 1953 Jan p 64-67
- neutron-beam scattering technique, protein synthesis, ribosome,
structure of ribosome 1976 Oct p 44-54
- cell-surface antigens, cell culture cell differentiation, immune response,
immunoglobulin lymphocytes 1973 June p 82-91 [1275]
- blood plasma, collagen glycoproteins, interferon, protein molecule
1974 May p 78-86 [1295]
- antibodies cancer, cancer immunology, immunopotentiators immune
response tumor-specific antigens, leukemia, transplantation antigens
1977 May p 62-79 [1358]
- antigens graft rejection histocompatibility, immune response, H-2
antigens HLA antigens 1977 Oct p 96-107 [1369]

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1978 Apr p 68-76 [1386]
- in gold dust
1977 Sept p 102
- cell transformation, gene culture, polyoma virus, SV40 virus, viral DNA, viral carcinogenesis
1967 Apr p 28-37 [1069]
- cell wall, gene transformation, pneumococcus, recombinant DNA, transformation induced by factor synthesized by cell
1969 Jan p 38-44
- bacterial cell, bacterial metabolism, penicillin, polysaccharides, glycopeptides, membrane
1969 May p 92-98
- cellulose, monosaccharides, plant cell, polysaccharides
1975 Apr p 80-95 [1320]
- cello, bass, viola, violin, Chladni patterns, music, musical instruments, physics of violins
1962 Nov p 78-93
- cellular polarity, regeneration, biological form, cell differentiation, embryonic development, Hydra, morphogenesis, morphogens
1974 Dec p 44-54 [1309]
- cellulose, synthetic fiber, rayon, nylon, synthetic macromolecules, glass, man-made textile fibers
1951 July p 37-45
- wood, lignin, cell structure, grain structure
1953 Jan p 64-67
- soil conditioners, humus, polyacrylates, polyvinylites, tilth
1953 Aug p 36-38
- rayon, forest products, crystal structure, lignin, polymers, paper, polysaccharides, overview of natural polymer
1957 Sept p 156-168
- algae, xylan, mannan, plant cell wall, xylan, mannan in place of cellulose in marine plant tissue
1968 June p 102-108 [1110]
- forest products, wood pulp, paper, lignin, rayon, waste recycling, kraft process
1974 Apr p 52-62
- cell wall, monosaccharides, plant cell, polysaccharides
1975 Apr p 80-95 [1320]
- molecule synthesized
1957 Aug p 60
- cellulose digestion, ruminants, metabolism, symbiosis, anaerobic metabolism, fermentation, how cows digest grass
1958 Feb p 34-38
- shipworm, *Teredo*, natural history
1961 Feb p 132-142
- Celtic Britain, archeology, Celtic culture, Gussage site
1977 Dec p 156-159 [702]
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1977 Dec p 156-159 [702]
- Celtic religion, Gauls in France, Seine River source, shrine of Sequana
1971 July p 65-73
- cement, concrete, Portland cement, hydration, X-ray diffraction, chemistry of concrete
1964 Apr p 80-92
- chemical reaction, high-alumina cement, Portland cement, cement hardening and strength
1977 July p 82-90 [370]
- census, U.S.S.R.
1959 Sept p 104
- see also U.S. census
- center-pivot irrigation, irrigation, ground water, agricultural technology
1976 June p 90-99
- central city, U.S. census, urbanization, age-sex distribution, baby boom, family size, suburbs, U.S. census at 1960
1961 July p 39-45
- housing, urban planning, suburbs, cities, metropolitan area, conurbation, evolution of the metropolis
1965 Sept p 64-74
- local government, cities, New York, metropolitan region, suburbs, Northeast Corridor, regional planning
1965 Sept p 134-148
- urban planning, cities, highway engineering, mass transit, open space, diversity, 'paths'
1965 Sept p 209-219
- central nervous system, poliomyelitis virus, infective specificity, infective specificity, epidemiology, nature of the disease and public health status before production of the vaccines
1950 Aug p 22-26
- acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional illness, neurotransmitters, physiological psychology, chemical mediation of nerve impulses
1957 Feb p 86-94
- medulla, reticular formation, brain, perception, motor reflex, neurophysiology, attention and orienting mechanism in brain
1957 May p 54-60 [66]
- brain, cerebellum, cerebrum, neurophysiology, cerebral-cerebellar coordination
1958 Aug p 84-90 [38]
- cell communication, nerve conduction, ganglion reflexes, neuroreceptors, retina, nerve impulse, neurotransmitters, neural synapse, cytology, neuromuscular synapse, how cells communicate
1961 Sept p 209-220 [98]
- computer technology, redundancy, reliability, error suppression
1964 Feb p 103-112 [298]
- reflex arc, neuromuscular control, muscle contraction, nerve inhibition, interneuron, motor neuron, stretch reflex, Renshaw cell, synapse
1966 May p 102-110
- animal behavior, mollusks, neurophysiology
1971 Feb p 68-75 [1212]
- bilateral symmetry, left-right asymmetry, mirror images
1971 Mar p 96-104 [535]
- drug-induced imagery, hallucination, perceptual illusions, perceptual-release theory
1977 Oct p 132-140 [579]
- central-place theory, anthropology, market networks, People's Republic of China, Guatemala, rural markets
1975 May p 66-79
- centrifugal compressor, gas turbine, aircraft propulsion, axial-flow compressor, ducted fan, electric power generation
1953 Nov p 65-72
- centrifuge, blood plasma, blood fractionation, erythrocyte, leukocyte, platelets, blood transfusion, blood banks
1954 Feb p 54-62
- centrioles, mitotic spindle, sea urchin egg, chromosome, digitonin
1953 Aug p 53-63
- C.E.P.: circular error probability
- C.E.P., counterforce strategy, atomic weapons, cruise missiles, MIRV, arms race, missile accuracy, strategic weapons, accuracy as multiplier of force
1975 July p 14-23
- cephalization index, brain evolution, brain size, endocranial casts
1976 Jan p 90-101 [568]
- cephalopods, squid, giant axon, nerve impulse
1951 Apr p 64-69
- Cepheid variable, universe expansion, Clouds of Magellan, Andromeda Galaxy, galactic yardstick, doubling of yardstick doubles size and age of the universe
1953 June p 56-66
- galactic evolution, 'cosmic yardstick', universe evolution
1959 July p 48-55
- invisible twin North Star of Polaris
1956 Feb p 56
- cosmology, intergalactic yardstick lengthens
1958 Sept p 86
- ceramics, materials technology, glass fiber, optical glass, amorphous solid, properties of glass as 'undercooled liquid'
1961 Jan p 92-104
- glass, metals, materials technology, polymers, chemical band, composite materials, atom, elements, introduction to single-topic issue on materials
1967 Sept p 68-79
- aluminates, materials technology, crystal structure, silicates, heat resistance, ionic bonds, covalent bonds, nature of ceramics
1967 Sept p 112-124
- ductility in single-crystal magnesium oxide
1958 Apr p 50
- cerebellar cortex, brain, brain circuitry, neuronal networks, Purkinje cells, mossy fibers
1975 Jan p 56-71 [1312]
- cerebellum, brain, cerebral cortex, cerebrum, brain surgery, electroencephalography, 'the great raveled knot', localization of brain function
1948 Oct p 26-39 [13]
- brain, central nervous system cerebrum, neurophysiology, cerebral-cerebellar coordination
1958 Aug p 84-90 [38]
- brain organization, cerebral motor cortex, muscle control, monkey experiments
1973 July p 96-103 [1277]
- cerebral cortex, brain, cerebrum, cerebellum, brain surgery, electroencephalography, 'the great raveled knot', localization of brain function
1948 Oct p 26-39 [13]
- memory, brain, learning fundamental research, What is memory?
1953 Sept p 118-126 [11]
- creativity, neurophysiology, imagination, neuronal networks
1958 Sept p 135-146 [65]
- mammalian brain, corpus callosum, brain hemispheres split-brain experiments, monkey, cat, human post-operative subject
1964 Jan p 42-52 [174]
- animal behavior, learning striatum, bird nervous system, crows
1968 June p 64-76 [515]
- pigeons, canaries, chickens
- brain damage, speech, writing, brain hemispheres, functional organization of the brain
1970 Mar p 66-78 [526]
- information processing
1956 Oct p 72
- see also visual cortex
- cerebral dominance, brain hemispheres, perception, split-brain experiments, corpus callosum, intelligence, language, localization of brain function
1967 Aug p 24-29 [508]
- brain hemispheres, left-hemisphere functions, music perception right-hemisphere functions, auditory perception, visual perception
1973 Mar p 70-78 [554]
- auditory perception brain hemispheres, musical illusions handedness hearing illusions, perception two-tone illusion
1975 Oct p 92-104 [566]
- cerebral hemorrhage, surgery, cerebral vascular accident, atherosclerosis, microvascular surgery, repair and prevention of stroke by microvascular bypass operation
1978 Apr p 58-67 [1385]

- cerebral motor cortex, brain organization, cerebellum, muscle control,
monkey experiments 1973 July p 96-103 [1277]
- cerebral organization, split-brain 1961 Aug p 66
- cerebral palsy, brain damage, birth trauma, asphyxia, monkey
experiments, implications for human infants 1969 Oct p 76-84 [1158]
- cerebral vascular accident, surgery, atherosclerosis, microvascular surgery,
cerebral hemorrhage, repair and prevention of stroke by
microvascular bypass operation 1978 Apr p 58-67 [1385]
- cerebrospinal fluid, sleep deprivation, goat experiments 1976 Aug p 24-29 [571]
- cerebrum, brain, cerebral cortex, cerebellum, brain surgery,
electroencephalography, 'the great raveled knot', localization of
brain function 1948 Oct p 26-39 [13]
- brain, cerebellum, central nervous system, neurophysiology, cerebral-
cerebellar coordination 1958 Aug p 84-90 [38]
- Cerenkov radiation, Compton effect 1951 Oct p 54-55
- high-energy physics, tachyons, speed of light, special relativity,
hypothetical particles faster than light 1970 Feb p 68-77
- for particle counting 1952 Aug p 33
- cermets, composite materials, dispersion-strengthened composites, fiber-
reinforced composites, particulates 1973 July p 36-44
- C.E.R.N.: European Organization for Nuclear Research
- C.E.R.N., nuclear power, 'atoms for peace', thermonuclear reaction,
fission reactor, fusion reactor, first of a four-part report on the
International Conference on the Peaceful Uses of Atomic Energy,
Geneva, August 1945 1955 Oct p 27-33
- colliding-beam accelerator, high-energy physics, particle interaction,
proton-proton interaction 1973 Nov p 36-44
- Bloch director 1954 Sept p 74
- Bakker, director 1955 May p 50
- 300-GeV particle accelerator 1971 Apr p 49
- ceruloplasmin, hemocyanin, oxygen transport, enzymes, copper
deficiency, cytochrome oxidase, copper biochemistry, Wilson's
disease, tyrosinase 1968 May p 102-114
- cesium clock, atomic clock, ammonia maser, maser, zenith tube, mercury
muror, improvements on sidereal time 1957 Feb p 71-82 [225]
- length standard, mass standard, time standard, temperature standard,
interferometry, measurement 1968 June p 50-62
- cesium-ion beam, ion propulsion, plasma jet, jet velocity,
magnetohydrodynamics, electrical propulsion, space exploration
1961 Mar p 57-65
- cetacea, *see* whale, porpoises
- Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis,
malaria, filariasis, leishmaniasis, plague, yellow fever, typhus,
epidemiology, animal infection and human disease 1960 May p 161-170
- insect venom, assassin bugs, predator-prey relationship, entomology,
natural history 1960 June p 72-78
- chain reaction, free radicals, chain initiators, half-life reaction kinetics
1953 Dec p 74-78
- Challenger, oceanography, marine biology 1953 May p 88-94
- chalone, cell-division depressor 1967 July p 44
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1964 Feb p 74-93 [296]
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1957 July p 72-88 [213]
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1969 Jan p 98-106
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1956 June p 131-138
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1974 Feb p 92-105
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1954 June p 46
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1968 July p 55
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1968 Dec p 60-70 [875]
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1973 May p 62-72 [908]
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1974 Apr p 80-89 [912]
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1975 Feb p 88-97
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1977 Mar p 92-104
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1977 Apr p 30-41
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1963 June p 73
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1967 Dec p 50
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1968 Apr p 43
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1969 Aug p 50
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1955 Sept p 62-66 [816]
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1972 Mar p 30-38 [899]
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1949 Apr p 40-43
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1955 Mar p 82-86 [808]
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1956 Aug p 36-41
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1956 Dec p 83-94
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1962 Jan p 112-123
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1969 Sept p 106-122 [882]
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1966 Mar p 24-33 [1036]
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1952 Aug p 57-59
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1960 May p 70-79
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1963 Dec p 74-88
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1952 Sept p 82-96
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1972 June p 90-101 [543]
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1976 Apr p 48-52 [570]
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1954 Apr p 31-34
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1959 Apr p 50-55
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1973 July p 17-23
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1953 Aug p 48
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1966 June p 56
- Roman Catholics
1968 Dec p 50
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- contractile proteins, flagella, keratin, myosin epidermis 'k m e f' group motility in bacteria
1951 Jan p 20-24
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1975 Feb p 88-97
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1966 Jan p 105-110
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1974 Mar p 76-83
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1974 Nov p 106-114 [1308]
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1952 Sept p 48-55

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 pressure, gravitational collapse, thermonuclear reaction, genesis of
 solar system 1948 May p 35-45
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 universe expansion 1948 July p 20-25
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 survey, 200-inch and 48-inch Palomar telescopes 1948 Aug p 12-17
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 galactic evolution, Hale telescope, first yield from 200 inch telescope
 1952 Feb p 43-51
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 formation, genesis 1954 Mar p 54-63
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 1954 June p 76-81
 astronomy, philosophy of science, galactic clusters, universe, planetary
 motion, solar system, introduction to single-topic issue on the
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 according to Gamow 1956 Sept p 136-154
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 Hoyle 1956 Sept p 157-166
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 recession velocity, galactic clusters, observational cosmology
 1956 Sept p 170-182 [240]
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 method, distribution of galaxies as test of cosmologies
 1956 Sept p 187-200
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 view of cosmology 1956 Sept p 224-236
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 'universon', 'cosmon', 'anticosmon' 1958 Apr p 34-39
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 high-energy physics, high-energy physics and cosmology
 1967 Apr p 106-114 [311]
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 low-energy radiowaves, isotropy, primeval fireball, helium
 abundance, 'big bang' theory and cosmic background radiation
 1967 June p 28-37
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 Apollo samples, carbon chemistry, moon, solar wind 1972 Oct p 80-90
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 deuterium abundance, age of elements, average density
 1976 Mar p 62-79
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 1959 Oct p 84
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 Einstein-De Sitter universe 1961 Feb p 74
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strong-focusing synchrotron, design and purposes of big accelerators
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colliding galaxies
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chromosome, how cells make molecules
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division
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specialize
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buds, how cells receive stimuli
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 light-emitting diode, semiconductor, laser, junction diode, solid-state lasers 1967 May p 108-122
 electron diffraction, electron, wave-particle duality, diffraction, interference fringes, Davisson-Germer experiment 1948 May p 50-53
 crystallography, crystal structure, slow electrons as diffraction probe 1965 Mar p 32-41
 electron discovery, electromagnetism, induction coil, radio discovery, X-ray discovery, science history 1971 May p 80-87
 electron 'gas', alloys, materials technology, metals, crystal structure, grain boundaries, lattice defects, dislocations, nature of metals 1967 Sept p 90-100
 electron-hole liquid, electromagnetic radiation, exciton, quantum mechanics, semiconductor 1976 June p 28-37
 electron interferometer, for perfect standards 1953 Aug p 42
 electron manipulation, electromagnetic spectrum, electron storage rings, spectroscopy, synchrotron radiation, X-ray lithography, X-ray probe, uses of synchrotron radiation 1977 June p 32-41 [365]
 electron mass, physical constants, measurement, velocity of light, particle charge, least-squares method standards of measurement, Planck's constant, Rydberg constant 1970 Oct p 62-78 [337]
 electron mean free path, electrical conductivity, Fermi surface, semiconductor, materials technology, quantum mechanics, charge carriers, electrical properties of materials 1967 Sept p 194-204
 electron micrographics, soap 1952 Feb p 58-59
 electron microscopy, virology, cell, viruses inside cells 1953 Dec p 38-41
 muscle contraction, muscle fiber, myosin, actin, muscle fiber structure and function 1958 Nov p 66-82 [19]
 bacteriology, microorganisms, PPLO, virus cytology, smallest free-living cells 1962 Mar p 117-126 [1005]
 cell membrane, endoplasmic reticulum, myelin sheath mitochondria, nuclear membrane, electron microscope study of membranes in cell 1962 Apr p 64-72 [151]
 human physiology, sarcoplasmic reticulum, muscle fiber, sarcoplasmic reticulum, functions deduced from structure 1965 Mar p 72-80 [1007]
 actin, muscle contraction myosin, ATP, sliding filament hypothesis 1965 Dec p 18-27 [1026]
 atom visibility, microscopy, scanning electron microscope 1971 Apr p 26-35
 DNA transcription gene action visualized, ribosome, mRNA 1973 Mar p 34-42 [1267]
 stains for cell subjects improved 1961 Sept p 96
 protein structure, purple membrane 1972 Oct p 46
 electron mirror microscope, forerunner of scanning 1955 Dec p 54
 electron-multiplier tube, scintillation counter, particle accelerator, scintillation counters 1953 Nov p 36-41
 electron-muon, leptons as family 1977 May p 55
 electron optics, electronics, electron tubes, amplifiers, communication technology, rectifiers, cathode-ray tube, communication, power, thermionic emission, state of the technology 1950 Oct p 30-39
 communication technology, laser, pulse-code modulation, Kerr effect, Pockel's effect, polanzation, modulators, modulation of laser light 1968 June p 17-23
 microcircuit fabrication, computer-controlled fabrication, silicon 'chips', computer technology, integrated circuits 1972 Nov p 34-44
 electron orbitals, alkali-metal anions, alkali-metal cations, cryptands, solvated electrons, quantum mechanics 1977 July p 92-105 [368]
 electron pairs, energy transfer, superconductors, organic superconductor, proposal for room-temperature superconductor 1965 Feb p 21-27
 electron plasma, plasma physics, positive ion plasma, 'hole' plasma, plasmas in solids as models for study of gas plasmas 1963 Nov p 46-53
 electron-positron annihilation, antimatter, high-energy physics, colliding-beam accelerator, proton, parton model, quantum electrodynamics 1973 Oct p 104-113
 antimatter, J particle, psi particle, charm, color, quark, high-energy physics storage rings, virtual particles 1975 June p 50-62
 electron-ring accelerator, collective-effect accelerators, particle accelerator, particle-storage rings 1972 Apr p 22-33
 1,000 GeV(?) 1969 Oct p 48
 electron scattering, atomic nucleus, nuclear physics, high-energy physics, particle-scattering experiments, models of the atomic nucleus 1956 July p 55-68 [217]
 proton spin, spin, high-energy physics, 'strong' force, dependence of nuclear forces on spin 1966 July p 68-78
 electron shells, molecular structure, computer modeling, quantum chemistry, molecular orbits, computer graphics 1970 Apr p 54-70
 electron shower, detection of cosmic ray events 1957 June p 70
 electron spin, materials technology, ferromagnetism, magnetic domains, hysteresis, magnetic properties of materials 1967 Sept p 222-234
 antimatter, g factor, electron, magnetic moment, positron, magnetic bottle 1968 Jan p 72-85
 electron-spin resonance, aging, radiation damage, free radicals, chemical bond, spectroscopy, effects of free radicals on living systems 1970 Aug p 70-83 [335]
 electron storage rings, electromagnetic spectrum, electron manipulation, spectroscopy, synchrotron radiation, X-ray lithography, X-ray probe, uses of synchrotron radiation 1977 June p 32-41 [365]
 electron theory, molecular beam, resonance absorption, atomic radiation, coherent radiation, gas molecules, nuclear magnetic resonance, Stern-Gerlach experiment 1965 May p 58-74
 electron transfer, ATP synthesis, mitochondria, oxidation membrane, mitochondrion, proposed structure of mitochondrion 1964 Jan p 63-74
 chlorophyll, photosynthesis, chloroplast, ATP, cytochrome, pigments, role of chlorophyll in photosynthesis 1965 July p 74-83 [1016]
 anthracene, crystallography, photosynthesis, exciton, plants, organic crystals, conjugated aromatic hydrocarbons 1967 Jan p 86-97
 chlorophyll, chloroplast photosynthesis, light absorption 1974 Dec p 68-82 [1310]
 electron transport, bacterial toxin, plague bacillus, Black Death, respiration mechanism of death by plague toxin 1969 Mar p 92-100
 chloroplast, photosynthesis, photochemistry, chlorophyll, mechanism of photosynthesis 1969 Dec p 58-70 [1163]
 electron tube, rectification, radio thermionic tube, diode, Fleming, history of science, England, Edison, lamps, DeForest 1969 Mar p 104-112
 electronic calculator, *see* computer
 electronic camera, astronomy, image enhancement, image intensifier, telescope, electronic image processing 1956 Mar p 81-90
 vision, retina, photographic emulsion vidicon, television camera, photochemistry, light, image detection 1968 Sept p 110-117
 electronic circuitry, junction diode amplifiers, amplifiers, sound reproduction transistor, noise 1959 June p 118-129
 integrated circuits, microelectronics technological innovation, silicon 'chips', introduction to single-topic issue on microelectronics 1977 Sept p 62-69 [374]
 electronic components industry, integrated circuits transistor, microelectronics silicon 'chips' 1965 Nov p 56-70

- electronic equipment, automatic manufacture, Project Tinkertoy, modular design 1955 Aug p 29-33
sound waves, communication technology, crystal surface waves, Rayleigh waves, signal processing, ultrasonic waves 1972 Oct p 50-68
- electronic scanner, computer technology, information storage, information retrieval, microrecording, microfiche, library science 1966 Sept p 224-242
- electronic switching, telephone switching, electromechanical switching, markers, electronic replaces electromechanical switch 1962 July p 132-143
communication networks, communication satellite, multiplexing, network theory, radio, communication, telephone systems, television systems 1972 Sept p 116-128
- electronic telephone, telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58-64 [3002]
- electronic typesetter, letter-projection method 1967 Dec p 55
- electronic typesetting, printing, photographic typesetting, digital computer, mechanical composition, cathode-ray tube, computer applications 1969 May p 60-69
with help of photography 1949 Nov p 28
- electronics, solid state physics, transistor, vacuum tube, germanium, diode, triode, dawn of solid-state electronics 1948 Sept p 52-55
electron tubes, amplifiers, communication technology, rectifiers, electron optics, cathode-ray tube, communication, power, thermionic emission, state of the technology 1950 Oct p 30-39
transistor, junction transistor, vacuum tube, computer technology, forecast of a 'revolution in electronics' 1951 Aug p 13-17
- electric field, Gunn effect, microwave emission, negative resistance, solid state physics, gallium arsenide, solid state microwave generation 1966 Aug p 22-31
optical maser 1962 Jan p 62
- electroorganic chemistry, electrolysis, electrolytic chemical processes 1967 Apr p 50
- electrophoresis, protein separation, Schlieren scanning, moving-boundary electrophoresis 1951 Dec p 45-53
sex determination, spermatozoon motility, gene manipulation, sorting out Y-bearing sperm by electrophoresis 1958 Nov p 87-94
immunoelectrophoresis, antigens, antibodies, separation of proteins 1960 Mar p 130-140 [84]
- electric field, electric 'wind', non-uniform electric field, applications of non-uniform electric fields 1960 Dec p 106-116
evolution, gene pool, mutation, genetic load, population genetics, heterozygosity 1970 Mar p 98-107 [1172]
- electroplaques, electric fishes, sodium ion potential, neurophysiology, synapse, acetylcholine, animal behavior, nerve impulse, bioluminescence 1960 Oct p 115-124
- electroplating, with titanium 1954 Dec p 58
plating refractory metals 1957 Aug p 62
- electroretinography, vitamin A deficiency, night blindness, opsin, rhodopsin, bright-light exposure, retinitis pigmentosa, night blindness in rat, action of vit A on eye 1966 Oct p 78-84 [1053]
- electrostatic belt generator, particle accelerator, Van de Graaf generator, charge-changing accelerator, negative ion 1970 Aug p 24-33
- electrostatics, air pollution, corona discharge, electrocoating, fly ash, photocopying, xerography, electrostatic precipitation and separation 1972 Mar p 46-58
- element 103, 'synthetic' elements, lawrencium, transuranium elements, high-flux isotope reactor, heavy-ion linear accelerator, periodic table at 103 1963 Apr p 68-78
- element 104, synthesized 1969 June p 56
- element abundance, cosmology, red shift, galactic recession, 'synthetic' elements, universe expansion 1948 July p 20-25
elements, cosmic distribution 1950 Oct p 14-17
dust cloud hypothesis, binary stars, photophoresis, gravitational collapse, angular momentum, origin of the Earth 1952 Oct p 53-61 [833]
- thermonuclear reaction, stellar evolution, universe, isotopes, 'synthetic' elements, particle accelerator, experimental astrophysics 1956 Sept p 82-91
- ecology, energy cycle, biomass, solar energy, food chain, autotrophs, heterotrophs, the ecosphere 1958 Apr p 83-92
- element formation, cosmology, universe expansion, Olber's paradox, world lines, curvature of space, red shift, galactic evolution, evolutionary universe, genesis 1954 Mar p 54-63
- spectroscopy, age of elements, age of universe, mass spectroscopy, nucleochronology, radioactive nuclei, stellar evolution supernovae 1974 Jan p 69-77
- chondrites, planets, solar system chemistry, space exploration stellar evolution 1974 Mar p 50-65
- element transmutation, atomic theory, Rutherford-Soddy theory, science history, radioactivity, radioactive decay transmutation, reception of 'newer alchemy' 1966 Aug p 88-94
- elementary particles, electron, proton, particle counters, neutron positron, mesons, photon, neutrino, particle accelerator, nuclear binding force, 'Meson Song' 1948 June p 26-39
cosmic radiation, ion traps, secondary radiation, high-energy physics 1949 Mar p 28-39
- field theory, high-energy physics, Classical physics, quantum fields, with 20 particles known, a review of the theoretical foundations of physics 1953 Apr p 57-64 [208]
- neutrino, neutron decay, alpha decay, beta decay, setting trap for detection of theoretical particle 1956 Jan p 58-68
parity, 'weak' force, symmetry, quantum, particle interaction, right and left-handed particles breakdown of parity 1957 Apr p 45-53 [231]
- antimatter, symmetry, 'weak' force, parity, particle interaction, recognition of 'fourth force' 1959 Mar p 72-84 [247]
- magnetic monopoles, electromagnetic radiation, particle accelerator, search for elementary particle of magnetism 1963 Dec p 122-131
- muonium, muon, electron, electromagnetism, positronium, atom structure of muonium 1966 Apr p 93-100
- atoms, electron, neutron, proton, matter, structure of 'ordinary matter' 1967 May p 126-134
- energy levels, atom, nucleus, high-energy physics, spectroscopy, 'three spectroscopies' 1968 May p 15-19
- alpha clustering, alpha particles, atomic nucleus, nuclear clustering neutron, nuclear forces, nuclear surface, proton 1972 Oct p 100-108
- leptons, heavy leptons, tau particle, small light-particle family gains new member 1978 Mar p 50-57 [398]
- mesons, multiplying particles 1948 Dec p 26
see also high-energy physics
- elements, element abundance, cosmic distribution 1950 Oct p 14-17
glass, metals, materials technology, ceramics, polymers, chemical band, composite materials, atom, introduction to single-topic issue on materials 1967 Sept p 68-79
living matter, essential elements, metallo-enzymes, fluorine, silicon, tin vanadium, list of elements essential to life lengthened to 24 1972 July p 52-60
- isotopes, radioactive decay, atomic nucleus, 'synthetic' elements, exotic isotopes of light elements 1978 June p 60-72 [3010]
- elements renamed, by Commission on Inorganic Nomenclature 1949 Nov p 30
- elephant, intelligence, learning, vision, research in elephant learning 1957 Feb p 44-49
animal husbandry, antelope, giraffe, buffalo, rhinoceros hippopotamus, wildlife husbandry in Africa 1960 Nov p 123-134
elephant extinction, Clovis culture, hunting, mammoth-bone deposits Folsom points, New World archeology 1966 June p 104-112
- elephantiasis, circadian rhythm, filariasis, parasitism, tropical disease 1958 July p 94-101
- elliptical galaxies, gravitational collapse, galactic evolution barred galaxy, spiral galaxies, evolution from taxonomy 1956 Sept p 100-108
- galactic evolution, spiral galaxies, origin and history from shape 1963 Jan p 70-84
- Elsasser-Bullard hypothesis, geomagnetism permanent magnets, electromagnetism, Blackett hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24
- elutriation, rain drop, soil erosion, sheet erosion, micromechanics of soil erosion 1948 Nov p 40-45
- embryo-graft experiments, regeneration cell differentiation, cockroach embryonic development, newt, biological form 1977 July p 66-81 [1363]
- embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research, How do cells differentiate? 1953 Sept p 108 116
- cell differentiation, embryonic development blastula, gastrula, fertilization, ectoderm, mesoderm endoderm science history, review of classical embryology 1957 Nov p 79-88 [103]
- embryology, embryonic development, regeneration nerve circuits reflex arc, 'hard-wiring' of nervous system 1959 Nov p 68-75 [72]

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origin of muscle in embryonic development 1964 Aug p 61-66
- embryonic development, dedifferentiation of tissue cells, regeneration,
cancer 1949 Dec p 22-24
- observed in the chick embryo 1950 Feb p 52-55
- protozoan, cell differentiation, regeneration, protozoan as model for
embryological study 1953 Mar p 76-82
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fundamental research, How do cells differentiate?
1953 Sept p 108-116
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plutonium established a new research technology 1954 Feb p 76-81
- nerve regeneration, vision, learning, visual perception, inborn 'hard
wiring' of nerve circuitry 1956 May p 48-52 [1090]
- cleft palate, congenital anomalies, fetal injury, teratogenesis, rubella,
teratology 1957 Oct p 109-116
- cell differentiation, blastula, gastrula, fertilization, ectoderm,
mesoderm, endoderm, embryological 'organizer', science history,
review of classical embryology 1957 Nov p 79-88 [103]
- salamander, regeneration, frog, nerve fibers, role of nerve fibers in
regeneration 1958 Oct p 79-88
- cell differentiation, feedback, tissue specialization 1958 Dec p 36-41
- heart embryology, mesoderm, first heartbeat 1959 Mar p 87-96 [56]
- tissue culture, tissue differentiation, dissociated cells, reassembly of
dissociated tissue cells 1959 May p 132-144
- regeneration, nerve circuits, embryology, reflex arc, 'hard-wiring' of
nervous system 1959 Nov p 68-75 [72]
- cell differentiation, tissue specialization, 'lampbrush' chromosome,
zygote, fertilization, ovum, clone, cytology, how cells specialize
1961 Sept p 124-140
- cell aggregation, tissue differentiation, cell 'recognition', cytology, how
cells associate 1961 Sept p 142-165
- oocytogenesis, meiosis, mitosis, mammalian eggs, chromosomal
anomalies, ovum, in vitro fertilization 1966 Aug p 72-81 [1047]
- cell differentiation, pancreas, mesoderm, endoderm, tissue culture
1969 Mar p 36-44 [1136]
- mitosis, ovum, fertilization, meiosis, blastocyst, human embryos in the
laboratory 1970 Dec p 44-54 [1206]
- calcium ion activator, cell motility, cell shape, microfilaments,
microtubules 1971 Oct p 76-82 [1233]
- brain circuitry, nerve cells, neuronal specificity, visual cortex, *Xenopus*
laevis 1973 Feb p 26-35 [1265]
- regeneration, biological form, cell differentiation, cellular polarity,
Hydra, morphogenesis, morphogens 1974 Dec p 44-54 [1309]
- crystals, calcite, calcium carbonate crystals, crystal structure, sea
urchin embryo 1977 Apr p 82-92
- regeneration, cell differentiation, cockroach, embryo graft experiments,
newt, biological form 1977 July p 66-81 [1363]
- cell motility, wound healing, cell tracks, tubulin, mitotic apparatus, cell
motion made visible to naked eye 1978 Apr p 68-76 [1386]
- growth, computer modeling, grid-transformation, the shaping of tissues
in embryos 1978 June p 106-113 [1391]
- feedback control 1952 Oct p 42
- differentiation inducers 1962 Apr p 77
- emergency medicine, homeostasis, wound shock, body fluids, shock,
treatment of shock 1958 Dec p 115-124
- eminent domain, urban renewal, slums, cities, housing, relocation, urban
planning, U S experience with Federal subsidy of urban renewal
1965 Sept p 194-204
- emission nebulae, color photography, interstellar gas, ionization, nebular
luminosity 1974 Oct p 34-43
- emission standards, air pollution, Clean Air Act, Environmental
Protection Agency 1973 June p 14-21
- emmer, wheat, Einkorn wild Einkorn, hybrid cells, fungi, chromosome
doubling, plant breeding, origin and perfection of wheat
1953 July p 50-59
- emotion, pupil size, attitude, eye, attention, effect of attitude on pupil size
1965 Apr p 46-54 [493]
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Pavlov, psychology, thyroidectomy, stress neurosis conditioned
reflex is shown to be a neurosis 1954 Jan p 48-57 [418]
- emotional deprivation, child psychiatry, autism schizophrenia,
psychoanalysis, 'mechanical boy' 1959 Mar p 116-127 [439]
- behavioral psychology, maternal deprivation rhesus monkeys,
surrogate mother, infant monkey 'love' 1959 June p 68-74 [429]
- ACTH, child development, dwarfism, growth hormone, deprivation
dwarfism, 'bone age', anorexia nervosa 1972 July p 76-82 [1253]
- emotional development, fear, comparative psychology, learning, influence
of early environment, experiments with dogs 1956 Jan p 38-42 [469]
- comparative psychology, parental care, abnormal behavior, maternal
deprivation, early experience and emotional development,
experiments with rats 1963 June p 138-146 [478]
- emotional illness, Oedipus complex, psychoanalysis 1949 Jan p 22-27
- group psychotherapy, psychiatry 1950 Dec p 42-45 [449]
- mental health, schizophrenia, epidemiology, family, psychosis, income
status 1954 Mar p 38-42 [441]
- acetylcholine, hormone, nerve impulse, serotonin, synapse,
neurotransmitters, central nervous system, physiological psychology,
chemical mediation of nerve impulses 1957 Feb p 86-94
- 'truth' drugs, psychoanalysis, psychoactive drugs, psychiatry, clinical
use of psychoactive drugs 1960 Mar p 145-154 [497]
- schizophrenia, psychoanalysis, psychiatry, psychosis, neurosis, double
bind, taxonomy of emotional illness, family therapy 1962 Aug p 65-74 [468]
- education, poverty, group behavior, rural poverty, community action,
social psychology, study of community regeneration 1965 May p 21-27 [634]
- behavioral psychology, child psychiatry, autism, schizophrenia
1967 Mar p 78-86 [505]
- group therapy, therapeutic community, role-channeling
1971 Mar p 34-42 [534]
- community mental-health centers, mental health, psychiatric hospital
population, psychoactive drugs, psychotherapy, psychiatry,
psychoanalysis 1973 Sept p 116-127
- community mental-health centers, skid row, drug addiction,
psychoactive drugs, 'deinstitutionalization' of the emotionally ill
1978 Feb p 46-53 [581]
- EMP: electromagnetic pulse 1972 Nov p 15-23 [342]
- EMP effect, arms control, atomic test ban, 'fireball blackout',
underground nuclear explosions, strategic weapons 1972 Nov p 15-23 [342]
- emphysema, bronchitis, air pollution, public health, smog environment
health, U S cities, smog and public health 1961 Oct p 49-57 [612]
- acute respiratory failure, intensive care, tracheostomy, lung, alveolar
collapse, pathogenesis and treatment of acute respiratory failure
1969 Nov p 23-29
- employment, armed forces of U S, arms production 1951 Sept p 89-99
- pluralistic economy, public sector, private-enterprise sector,
productivity, U S economy, not-for-profit sector 1976 Dec p 25-29
- nearly full 1951 Sept p 49
- employment by industry, engineering manpower, labor force, disciplinary
distribution 1951 Sept p 65-68
- employment by sector, science manpower, disciplinary distribution, labor
force 1951 Sept p 71-76
- employment levels, labor force, manpower policy, U S economy, women
in labor force, job creation vs job quality 1977 Nov p 43-51 [701]
- employment policy, economic development, Japan, investment, debt
financing, government-business relations, Japan's economic growth
1970 Mar p 31-37
- emulsification, ultrasonics, interferometry, nondestructive testing, sonar
1954 May p 54-63
- emulsion, photography, silver halide, photographic development,
photochemistry 1952 Nov p 30-33
- enamel, teeth, dentin, metabolism fluoridation 1953 June p 38-42
- enantiomers, olfaction, stereochemical theory of odor 1971 Aug p 46
- encephalitis, virus disease, animal vectors, influenza virus
1949 Sept p 18-21
- toxoplasmosis, parasitism, intracellular parasite, infectious disease,
insect vectors 1953 Feb p 86-92
- behavior, hyperactive child, temperament, genetic disease
amphetamines, possibly innate disease syndrome 1970 Apr p 94-98 [527]
- antigen variation, disease, medical history influenza virus, pandemics,
virus disease, animal vectors, Hong Kong flu, swine flu
1977 Dec p 88-106 [1375]
- endangered species, Antarctic convergence, whaling industry, blue whale,
International Whaling Commission 1966 Aug p 13-21
- Death Valley, desert pupfish, fish, species isolation
1971 Nov p 104-110 [1236]

- endocranial casts**, African hominids, brain evolution, fossil hominid brains, hominid, human brain, pongid brains
1974 July p 106-115 [686]
- brain evolution, brain size, cephalization index, intelligence, paleoneurology
1976 Jan p 90-101 [568]
- endocrine function**, found in arteries
1951 Sept p 52
- endocrine hormones**, cell receptors, gene regulation, hormonal action, protein synthesis, steroid hormones
1976 Feb p 32-43 [1334]
- endocrine system**, physiology, nervous system, respiration, nerve impulse, muscle contraction, science, physiology 1900-1950
1950 Sept p 71-76
- pituitary gland, ACTH, gonadotrophic hormones, metabolic hormones, growth hormone, the master gland
1950 Oct p 18-22
- ACTH, hormone, sexual characteristics, growth, thyroid-stimulating hormone, follicle-stimulating hormone, prolactin, androgens, estrogens, secondary sexual characteristics, human physiology, chemical integrators of the body
1957 Mar p 76-88 [1122]
- brain function, cyclic AMP, dopamine, messenger molecules, nervous system, neurotransmitters, L-DOPA treatment, Parkinson's disease, 'second messengers', brain endocrinology
1977 Aug p 108-119 [1368]
- endocrinology**, cockroach, woodroach, cockroach as laboratory animal
1951 Dec p 58-63
- endoderm**, cell differentiation, embryonic development, blastula, gastrula, fertilization, ectoderm, mesoderm, embryological 'organizer', science history, review of classical embryology
1957 Nov p 79-88 [103]
- cell differentiation, embryonic development, pancreas, mesoderm, tissue culture
1969 Mar p 36-44 [1136]
- endodorphins**, brain function, drug action, drug addiction, enkephalins, internal opiates, opiate receptors, brain endocrinology
1977 Mar p 44-56
- internal opiates
1977 Feb p 50
- endogamous group**, Dunkers, genetic drift, ear lobes, blood typing, 'hitchhiker's' thumb
1953 Aug p 76-81 [1062]
- endoplasmic reticulum**, cell nucleus, cytoplasm, cell organelle, chromosome, cell physiology, RNA, DNA, cytology, nuclear control of cell
1960 Jan p 126-136
- cell membrane, electron microscopy, myelin sheath, mitochondria, nuclear membrane, electron microscope study of membranes in cell
1962 Apr p 64-72 [151]
- cell membrane, cell secretion, exocytosis, membrane fusion, fluid-mosaic model of membrane
1975 Oct p 28-37 [1328]
- endosymbiosis**, cell evolution, cell organelle, chloroplast, eukaryotic cells, mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella, plastids
1971 Aug p 48-57 [1230]
- endothermy**, birds, dinosaurs, ectothermy, metabolism, birds descended from dinosaurs
1975 Apr p 58-78 [916]
- endotoxins**, bacterial infection, exotoxins, toxins, bacterial toxin, effects of endotoxins
1964 Mar p 36-45
- endrin**, insecticide, implicated in fish deaths
1964 May p 64
- energy**, heat, thermodynamics, quantum mechanics, entropy, equation of state, black body radiation, temperature, What is heat?
1954 Sept p 58-63
- matter, momentum, high-energy physics, conservation law, conservation laws in particle physics
1963 Oct p 36-45
- power machines, mechanical energy, biological energy, economic development, power, introduction to a single-topic issue on energy and power
1971 Sept p 36-49 [661]
- input to U S food system
1974 June p 48
- energy conservation**, nuclear power, fossil fuel, solar energy, synthetic fuels, energy policy of U S
1974 Jan p 20-29 [684]
- automobiles, engine efficiency, fuel consumption
1975 Jan p 34-44
- energy resources, nuclear reactor, fission reactor, nuclear-waste disposal, atomic-weapon proliferation, Rasmussen report
1976 Jan p 21-31 [348]
- consumer-product research, consumer protection household appliances, product safety, product technology, N B S
1977 Dec p 47-53
- in appliances, buildings
1977 Apr p 57
- energy consumption**, fossil fuel, petroleum reserves, coal reserves, liquid-fuel consumption, shale, tar sands, coal liquefaction, the fuel problem
1949 Dec p 32-39
- energy resources, fission fuels, power, fossil fuel, fusion fuels
1971 Sept p 60-70 [663]
- energy conversion**, solar energy, light absorption, pigments solar collectors
1956 June p 97-106
- energy cycle**, ecology, biomass, solar energy, food chain, element abundance, autotrophs, heterotrophs, the ecosphere
1958 Apr p 83-92
- wind, solar radiation, biosphere, albedo, atmospheric circulation climate, ocean circulation, terrestrial radiation, carbon dioxide 'window', Earth energy cycle
1970 Sept p 54-63 [1189]
- solar radiation, photosynthesis, biosphere, agricultural ecosystem climax ecosystem, ecosystem, food chain, respiration, biosphere energy cycle
1970 Sept p 64-74 [1190]
- celestial energy, cosmological 'hangups', power, radiation energy, entropy per unit energy, gravitational energy, stellar evolution, thermonuclear energy
1971 Sept p 50-59 [662]
- Eskimo, hunting societies, food chain, seal, power, Baffin Island, ecosystem
1971 Sept p 104-115 [665]
- animal husbandry, ecosystem, agricultural system, power, New Guinea tropical agriculture
1971 Sept p 116-132 [666]
- industrial society, U S economy, power, ecosystem, environmental protection
1971 Sept p 134-144 [667]
- biosphere, photosynthesis, respiration, power, radiation energy, solar radiation, terrestrial radiation
1971 Sept p 88-100 [664]
- climatic change, coral reefs, fossil reefs, marine ecosystems, reef evolution
1972 June p 54-65 [901]
- nitrogen fertilizer, nutrient cycle, soil structure, food and agriculture, food chain
1976 Sept p 74-86
- forest, ecosystem, partitioning of energy in a New England forest
1978 Mar p 92-103 [1384]
- energy demand**, breeder reactor, fission reactor, uranium fission, plutonium, 'third generation' breeder reactors
1967 May p 25-33
- fission reactor, electric power, nuclear power, fossil fuel, energy economics, history and prospects of nuclear power in U S
1968 Feb p 21-31
- thermal pollution, Industrial Revolution, biosphere, energy technology, fossil fuel cycle, carbon dioxide, industrial emissions, modification of natural cycles by man
1970 Sept p 174-190 [1197]
- breeder reactor, nuclear power, fast neutron reactor, uranium cycle, thorium cycle, liquid-metal reactor, fission reactor
1970 Nov p 13-21 [339]
- energy transformation**, fuel conversion efficiency, power, prime movers, steam turbines, magnetohydrodynamics, gas turbine, internal combustion engine, fuel cell, solar cells, power, nuclear power, comparative efficiencies of energy transformation pathways in industrial civilization
1971 Sept p 148-160 [668]
- energy economics**, Middle East oil, petroleum resources, Persian Gulf fields, economic development, Iran, Iraq, Saudi Arabia
1948 Sept p 9-15
- nuclear power, cost assessment, capital cost, competitive with fossil fuels
1951 Jan p 32-38
- coal, energy resources, natural gas, oil reserves, fossil fuel, impending petroleum shortage
1956 Oct p 43-49
- fission reactor, breeder reactor, nuclear power, atomic power in U K
1958 Mar p 29-35
- fission reactor, nuclear power, fuel rods, design of reactor fuel elements
1959 Feb p 37-43
- battery, fuel cell, electric power generation, energy transformation direct conversion chemical to electric energy
1959 Oct p 72-78
- fission reactor, breeder reactor, nuclear power, thorium cycle, uranium cycle, breeder reactor development
1960 Jan p 82-94
- tar sands, oil shales petroleum shale retorts, potential liquid-hydrocarbon reserves
1966 Feb p 21-29
- fission reactor, energy demand, electric power, nuclear power, fossil fuel, history and prospects of nuclear power in U S
1968 Feb p 21-31
- energy storage**, economic geography, pipelines, power transmission, tankers, power, economic geography of energy production distribution and consumption
1971 Sept p 164-175 [669]
- decision theory, power production, technology assessment, tort law, economic planning market process
1971 Sept p 191-200 [671]
- coal hydrogenation, coal liquefaction energy resources oil and gas from coal
1976 May p 24-29
- energy emission**, phosphors absorption line, energy transformation
1954 Oct p 62-66 [237]
- energy exchange**, ocean microstructure, ocean circulation, sea water salinity, oceanic stirring, sea-water temperature
1973 Feb p 64-77 [905]
- energy-information interaction**, entropy in communication process, information flow, information theory, thermodynamics
1971 Sept p 179-189 [670]

- energy levels, radar, microwaves, spectroscopy, molecular bonds, coherent radiation, resonance absorption, quantum jumps, quantum electrodynamics, time-keeping, foundation of maser, laser technology 1948 Sept p 16-23
- solid state physics, crystal structure, X-ray diffraction, ionic bonds, covalent bonds, metallic bonds, molecular bonds, the nature of solids 1952 Dec p 39-49 [249]
- matter, wave-particle duality, electromagnetic force, nuclear forces, gravitation, field theory, fundamental research, quantum jumps, corpuscular streams, what is matter? 1953 Sept p 52-57 [241]
- elementary particles, atom, nucleus, high-energy physics, spectroscopy, 'three spectroscopies' 1968 May p 15-19
- coherent radiation, interference, Brillouin scattering, laser light 1968 Sept p 120-136
- microwaves, interstellar matter, maser, hydroxyl radical, infrared astronomy, protostars, interferometry 1968 Dec p 36-44
- atomic nucleus, chemical bond, gamma radiation, molecular structure, Mossbauer spectroscopy 1971 Oct p 86-95
- Doppler effect, gas laser, laser spectroscopy, spectroscopy 1973 Dec p 69-85
- helium-cadmium laser, helium-selenium laser, laser, metal-gas mixtures, metal-vapor lasers 1973 Feb p 88
- energy output, bird flight, metabolism, wind tunnel experiments, gull, budgerigar 1969 May p 70-78 [1141]
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- economic development, energy technology, industrialization, population, fuel consumption, energy requirements and resources for economic development 1963 Sept p 110-126
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- petroleum alternatives 1974 Feb p 43
- windmill power 1974 May p 61
- nuclear power as principal option 1975 May p 42
- energy plantations 1976 Mar p 60B
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- automobile propulsion, electric power generation, composite materials, materials technology, flywheels 1973 Dec p 17-23
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- heat, propulsion, aerothermodynamics, laminar flow, turbulence, high temperatures, propulsion 1954 Sept p 120-131
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- engineering failure, molasses-tank disaster 1972 Mar p 44
- engineering manpower, labor force, employment by industry, disciplinary distribution 1951 Sept p 65-68
- shortage of 1951 July p 28
- enrollments up 1952 Mar p 36
- in short supply 1956 May p 54
- enrollment down 1960 Aug p 72
- engineers, scientists, low on happiness scale 1955 Apr p 50
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- English Kinsey report, human sexual behavior, cousins 1950 Apr p 32
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- English poetry, Copernican revolution, 'Space Rapture' 1977 June p 120-129 [367]
- Eniwetok tests, atomic bomb 1949 Oct p 20-21
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- entomology, bacteriology, biological pest control, agricultural pest, insecticide, insect physiology, virology, living insecticides 1956 Aug p 96-104
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1976 Feb. p. 32-43 [1334]
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1977 Mar. p. 44-56
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1975 Oct. p. 28-37 [1328]
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1964 Mar. p. 36-45
- endrin, insecticide, implicated in fish deaths
1964 May p. 64
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1954 Sept. p. 58-63
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1963 Oct. p. 36-45
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1971 Sept. p. 36-49 [661]
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1974 June p. 48
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- automobiles, engine efficiency, fuel consumption
1975 Jan. p. 34-44
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1976 Jan. p. 21-31 [348]
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1977 Dec. p. 47-53
- in appliances, buildings
1977 Apr. p. 57
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1949 Dec. p. 32-39
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1958 Apr. p. 83-92
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1970 Sept. p. 54-63 [1189]
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1970 Sept. p. 64-74 [1190]
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- Eskimo, hunting societies, food chain, seal, power, Baffin Island, ecosystem
1971 Sept. p. 104-115 [665]
- animal husbandry, ecosystem, agricultural system, power, New Guinea, tropical agriculture
1971 Sept. p. 116-132 [666]
- industrial society, U.S. economy, power, ecosystem, environmental protection
1971 Sept. p. 134-144 [667]
- biosphere, photosynthesis, respiration, power, radiation energy, solar radiation, terrestrial radiation
1971 Sept. p. 88-100 [664]
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1972 June p. 54-65 [901]
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1976 Sept. p. 74-86
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1978 Mar. p. 92-103 [1384]
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1968 Feb. p. 21-31
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1970 Sept. p. 110-119 [1191]
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1948 Sept. p. 9-15
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1951 Jan. p. 32-38
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1958 Mar. p. 29-35
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1959 Feb. p. 37-43
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1959 Oct. p. 72-78
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1960 Jan. p. 82-94
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1968 Feb. p. 21-31
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- decision theory, power production, technology assessment, tort law, economic planning, market process
1971 Sept. p. 191-200 [671]
- coal hydrogenation, coal liquefaction, energy resources, oil and gas from coal
1976 May p. 24-29
- energy emission, phosphors, absorption line, energy transformation
1954 Oct. p. 62-66 [237]
- energy exchange, ocean microstructure, ocean circulation, sea-water salinity, oceanic stirring, sea-water temperature
1973 Feb. p. 64-77 [905]
- energy-information interaction, entropy in communication, power, information flow, information theory, thermodynamics
1971 Sept. p. 179-188 [670]

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 emotional illness, mental health, schizophrenia, family, psychosis, income status 1954 Mar p 38-42 [441]
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 immunology, virology, influenza virus, public health, structure and biochemistry of flu virus 1957 Feb p 37-43
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 Anopheles mosquito, tropical medicine, malaria, Plasmodium, W H O malaria eradication 1962 May p 86-96
 eye disease, trachoma, virus disease, vaccination, immunization 1964 Jan p 79-86
 human behavior, bubonic plague, public health, Black Death, population history, long-term effects of plague, Europe 1348-50 1964 Feb p. 114-121 [619]
 bacteria, flies, maggot, dysentery, virology, disease vector 1965 July p 92-99
 congenital anomalies, genetic disease, hemophilia, mutation, in Queen Victoria's descendants 1965 Aug p 88-95
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 bacterial toxin, cholera, disease, medical care, sanitation, water supply 1971 Aug p 15-21
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 epidermal cells, wound healing, regeneration, leukocyte, fibroblasts, collagen 1969 June p 40-50 [1144]
 epidermal ridges, dermatoglyphics, skin, chromosomal anomalies 1969 Dec p 72-84 [1164]
 epidermis, flagella, contractile proteins, keratin, myosin, 'k m e f' group, motility in bacteria 1951 Jan p 20-24
 cancer, ultraviolet radiation, melanocytes, suntanning, skin, vitamin D 1968 July p 38-46
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 deep-sleep treatment 1953 Oct p 58
 Epimenides' paradox, antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Grelling's paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84-96
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 Epistles of St. Paul, computer analysis 1964 Jan p 56
 epitaxial growth, materials technology, solid state physics, crystal defects, surface chemistry, precipitation in solids, 'doping', chemical properties of materials 1967 Sept p 210-220
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 epoxy resins, adhesive, molecular attraction, surface tension, elastic energy, molecular repulsion, micromechanics of adhesion 1962 Apr p 114-126
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 equivalent sets, infinity, set theory, cardinal number, Cantor 1952 Nov p 76-84
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 ergot, mycology, fungi, wheat rust, potato blight, morel, amanita, Penicillium notatum, yeast, molds and men 1952 Jan p 28-32 [115]
 LSD, psychosis, psychoanalysis, experimental psychoses 1955 June p 34-39
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 erosion rate, U S landmass 1964 Oct p 58
 erythrocyte, sickle cell disease, gene mutation, genetic disease, single gene-single aminoacid deletion 1958 Jan p 68-74
 error-correcting codes, computer programming, computer technology, redundancy for error detection 1962 Feb p 96-108
 erythrocyte, blood plasma, blood fractionation, leukocyte, platelets, centrifuge, blood transfusion, blood banks 1954 Feb p 54-62
 metabolism, oxygen starvation, acclimatization, attitude adaptation 1955 Dec p 58-68
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 ESP: extrasensory perception
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 essential elements, elements, living matter, metallo-enzymes, fluorine, silicon, tin, vanadium, list of elements essential to life lengthened to 24 1972 July p 52-60
 essential oils, oleoresins steam distillation, vacuum distillation, flavors, perfumes 1953 Aug p 70-74
 estimation theory, batting averages statistics, Stein's paradox, approach of averages to norm 1977 May p 119-126 [363]
 estrin, twins, identical twins, fraternal twins, ovulation, physiology of twinning 1951 Jan p 48-51
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- friction, perpetual motion machines, thermodynamics 1968 Jan p 114-122
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- entropy per unit energy, celestial energy, cosmological 'hangups', energy cycle, power, radiation energy, gravitational energy, stellar evolution, thermonuclear energy 1971 Sept p 50-59 [662]
- enucleation, microsurgery, micromanipulator, cytосurgery 1950 Oct p 48-51
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- fission reactor, nuclear power, public health, radioactive waste disposal, underground storage 1977 June p 21-31 [364]
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- oceanic oil pollution 1962 Nov p 71
- recycling plant, garbage processing 1967 Jan p 58
- PCB's and bird eggs 1969 Feb p 44
- environmental protection, energy cycle, industrial society, U S economy, power, ecosystem 1971 Sept p 134-144 [667]
- U N conference in 1972 1969 Aug p 48
- Washington responds to public concern 1970 Apr p 44
- nuclear-plant regulation 1971 Dec p 40
- U N conference on the human environment 1972 Aug p 42
- Environmental Protection Agency, proposed 1970 Sept p 79
- environmental stimuli, brain development, learning memory, rats, sensory deprivation 1972 Feb p 22-29 [541]
- rat experiments 1971 Sept p 84
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- enzyme structure, self-assembly 1970 Feb p 45
- lactate dehydrogenase elucidated 1970 June p 48
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- for wound healing 1949 Dec p 28
- extra-cellular enzyme production 1961 July p 66 67
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- enzymology, extra cellular enzyme production 1961 July p 66 67
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- astrophysics red shift measurement, relativity theory gravitation theories assessed 1974 Nov p 24-33
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- epidemic hysteria, fainting 1967 Feb p 59
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- morbidity mortality rates economic development income status occupational health 'social medicine', environment mental well being, behavior of disease 1949 Apr p 11-15
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- Infra-Cambrian Ice Age, glaciation, fossil record, continental drift, paleomagnetism 1964 Aug p 28-36
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breeder reactor, nuclear power, fission reactor, Superphenix in France 1977 Mar p 26-35
fast neutrons, atomic nucleus, spectroscopy, nuclear probe, neutron spectroscopy, structure of atomic nucleus 1964 Mar p 79-88
fasting, diet, human nutrition, metabolism starvation, kwashiorkor, marasmus, physiology of starvation 1971 Oct p 14-21 [1232]
fat metabolism, fatty acids, coenzyme A, ATP, enzymes 1954 Jan p 32-36 [16]
tissue, hormone, obesity, fat tissue, diet, role of fat metabolism in human physiology 1959 Dec p 70-76
enzyme deficiency, genetic disease, amniocentesis, Tay-Sachs disease, lipids, lipid-storage diseases, 10 lipid-storage diseases 1973 Aug p 88-97
obese mice 1952 Sept p 74
fat tissue, fat metabolism, tissue, hormone, obesity, diet, role of fat metabolism in human physiology 1959 Dec p 70-76
Fata Morgana, atmospheric optics, mirages, optical illusion, refraction, walking on water 1976 Jan p 102-111
fathogram, ocean floor, topography, Aleutian Trench, seamounts, sonar, echo-sounding, the Pacific floor 1952 Apr p 19-33
fatigue, motivation, 'reactive inhibition', schizophrenia, experiment in objective measurement of motivation 1963 May p 130-140
fatigue wear, materials technology, wear, adhesive wear, abrasive wear, corrosion, surfaces in sliding contact 1962 Feb p 127-136
fatty acid synthesis, microsome, acetic acid, coenzyme A, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46-51
fatty acids, fat metabolism, coenzyme A, ATP, enzymes 1954 Jan p 32-36 [16]
thin-film optical devices, interferometry, fluorescence, wave motion, light waves, monomolecular films 1970 Mar p 108-119
feedback, hormone-like substances, drug therapy, nervous system, prostaglandin 1971 Nov p 84-92 [1235]
fatty liver, alcoholism, alcohol metabolism, liver function, malnutrition, 'empty calories', acetaldehyde, cirrhosis 1976 Mar p 25-33 [1336]
fault, *see* plate tectonics, block fault
fauna, Antarctica, flora, lichens, blue-green algae, ecology, Antarctica terrestrial life 1962 Sept p 212-230 [865]
Fayum, primate evolution, hominoid, fossil primates, apes, man-apes, Aegyptopithecus, Oligocene ancestor of hominoids 1967 Dec p 28-35 [636]
F.D.A : Food and Drug Administration
F.D.A., pharmaceutical industry, prostheses, medical care, medical economics, drug prescription, drug research, medical laboratory services 1973 Sept p 161-166
fear, anger, adrenalin, noradrenalin 1955 May p 74-81 [428]
emotional development comparative psychology, learning influence of early environment, experiments with dogs 1956 Jan p 38-42 [469]
anger, different adrenalins 1951 Nov p 40
feather duster worm, Annelida, lugworm, biological clock, circadian rhythm, marine worm 1959 June p 132-142
feather keratin, keratin, X-ray diffraction, protein structure alpha keratin 1969 Aug p 86-96 [1155]
feathers, as food additive 1975 May p 45
Fechner's law, learning visual perception, psychophysics Skinner box, behavioral psychology, conditioned behavior, pigeon perception 1961 July p 113-122 [458]
Federation of American Societies for Experimental Biology, annual meeting 1956 June p 54
feedback, insect behavior, social insect, army ant, ants, comparative psychology, reproduction pheromones trophallaxis natural history, philosophy of science, anthropomorphism 1948 June p 16-23

cybernetics, automatic control, self-regulation, computer science, automata theory, mechanical, biological, social self-regulation 1948 Nov p 14-19
automata theory, artificial sensory organs, mechanical behavior, an imitation of life 1950 May p 42-45
automata theory, learning, conditioned reflex 1951 Aug p 60-63
automatic control, self-regulation, automata theory, information theory, introduction to single-topic issue on automatic control 1952 Sept p 44-47
control loop, servomechanisms, flyball governor, positive feedback, negative feedback, ecological system, nervous system, economic system, automatic control, feedback concept 1952 Sept p 48-55
bone, calcium, cartilage, hydroxyapatite crystal, osteoclasts 1955 Feb p 84-91
computer science, von Neumann machine, automata theory, Turing machine, self-reproducing machine, 'artificial living plants' 1956 Oct p 118-126
embryonic development, cell differentiation, tissue specialization 1958 Dec p 36-41
eye movement, visual tracking visual scanning, human eye, control mechanisms of the eye 1964 July p 24-33
control theory, mathematics, cybernetics, computer programming, frequency response, stability, dynamic programming, 'policy' concept 1964 Sept p 186-200
manipulators, remote control, robot, automatic control, industrial manipulators 1964 Oct p 88-96
enzymes, protein synthesis, hemoglobin, myoglobin, control systems, cooperative enzymes, allosteric enzymes control of biochemical reactions 1965 Apr p 36-45 [1008]
vortex, edge tone, aerodynamic whistles, hole tone, sound waves, whistles, flutes, organs and rocket engines 1970 Jan p 40-46
control systems, water clock, thermostat, windmills, automatic control, flyball governor, origins of feedback control 1970 Oct p 110-118
fatty acids, hormone-like substances, drug therapy, nervous system, prostaglandin 1971 Nov p 84-92 [1235]
brain function, carbohydrate, neurotransmitters, serotonin, human nutrition, tryptophan 1974 Feb p 84-91 [1291]
feedback in biology, 'turbidostatic selector' 1952 Sept p 68
feeding behavior, animal behavior, sharks, attack prevention, sensory systems 1962 July p 60-68 [127]
basal metabolism, hibernation homeothermy, circadian rhythm, circannual rhythm, hypothalamus, squirrels, dormice in hibernation 1968 Mar p 110-118 [513]
animal behavior, innate behavior, learning, parental care, sea gull chicks 1969 Dec p 98-106 [1165]
chimpanzee, food sharing hunting, carnivorous chimpanzees omnivorous chimpanzees, Gombe National Park, Tanzania 1973 Jan p 32-42 [382]
mosquito bite, yellow fever, insect behavior, malaria, feeding behavior of mosquitoes 1978 June p 138-148 [1392]
'feelies', tactile simulation 1974 May p 61
female-role ideology, sex roles women's aspirations, attitude survey 1972 Jan p 34-42
fences, hickory, axe-handles, smoked ham, hickory nuts economic botany, forest, natural history, shagbark hickory 1948 Sept p 40-43
Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler, mathematics 1949 Jan p 40-45
fermentation, enzymes catalysis digestion, respiration, lock-and-key theory, science history 1948 Dec p 28-39
ATP, muscle contraction, citric-acid cycle, energy transformation 1953 Apr p 85-92
origins of life Miller-Urey experiment, high-energy radiation, heterotrophs, photosynthesis, autotrophs 1954 Aug p 44-53 [47]
ruminants metabolism, symbiosis, cellulose digestion, anaerobic metabolism, how cows digest grass 1958 Feb p 34-38
beer, enzymes, yeast, brewing, hops, chemistry and microbiology of brewing 1959 June p 90-100
baking yeast brewing, riboflavin synthesis cryptococcal meningitis cell physiology, yeasts, useful and noxious 1960 Feb p 136-144
Fermi award, to E O Lawrence 1958 Jan p 44
to Bethe 1961 Aug. p 62
Fermi dies, life and work 1955 Jan p 42
Fermi surface, crystal structure, metals gross properties explained as quantum effects 1963 July p 110-120
electrical conductivity, semiconductor, materials technology, quantum mechanics, charge carriers electron mean free path, electrical properties of materials 1967 Sept p 194-204

- crystal energetics, crystal structure, metallurgy, conduction electrons, quantum mechanics, quasi-particle concept, metal properties
1973 Jan p 88-98
- fermion, high-energy physics, mesons, ν -particles, boson, the multiplicity of particles
1952 Jan p 22-27
- high-energy physics, boson, gauge theory
1977 Mar. p 61
- fermium, californium, table of elements, einsteinium, 'synthetic' elements, transuranium elements, mendelevium, radioactive decay, periodic table at 101
1956 Dec p 66-80 [243]
- ferredoxin, energy-carrying chain in photosynthesis
1962 Oct p 60
- ferrite cores, computer memory, ferroelectric crystal memory, mercury delay line, magnetic tape, magnetic drum
1955 June p 92-100
- ferrites, magnetism, magnetic domains, iron, cobalt
1955 Jan p 68-73
- crystal structure, magnetism, materials technology, microwave radiation, computer memory, industrial applications of iron oxides
1960 June p 92-104
- ferroelectric crystal memory, computer memory, ferrite cores, mercury delay line, magnetic tape, magnetic drum
1955 June p 92-100
- ferrograph analysis, Beilby layer, friction, lubrication, machine wear, metal fatigue, particles of wear, wear
1974 May p 88-97
- ferromagnetism, electron spin, materials technology, magnetic domains, hysteresis, magnetic properties of materials
1967 Sept. p 222-234
- noncrystalline alloy
1967 July p 42
- Fertile Crescent, agricultural revolution, human evolution, cultural anthropology, Neolithic archeology, 8000 B C domestication of plants and animals
1960 Sept. p 130-148 [605]
- fertility, age-sex distribution, U S census, human resources, mortality rates, population of U S
1951 Sept p 28-35
- fertility control, *see* birth control, contraception
- fertilization, sea urchin egg, parthenogenesis
1950 Dec p 46-49
- parthenogenesis, progesterone, hyaluronidase, zona pellucida
1951 Mar p 44-47
- contraception, birth control, reproduction, ovulation, nidation
1954 Apr p 31-34
- antibodies, antigen-antibody reaction, fertilizin
1954 June p 70-75 [43]
- cell differentiation, embryonic development, blastula, gastrula, ectoderm, mesoderm, endoderm, embryological 'organizer', science history, review of classical embryology
1957 Nov p 79-88 [103]
- sea urchin, spermatozoon, acrosome reaction, sexual reproduction, moment of fertilization
1959 July p 124-134
- cell differentiation, tissue specialization, 'lampbrush' chromosome, embryonic development, zygote, ovum, clone, cytology, how cells specialize
1961 Sept p 124-140
- active transport, passive transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, functions of cell membranes
1961 Sept p 167-180 [96]
- avian reproduction, ring dove, breeding cycle, sexual behavior, hormone
1964 Nov p 48-54 [488]
- mitosis, ovum, embryonic development, meiosis, blastocyst, human embryos in the laboratory
1970 Dec p 44-54 [1206]
- sexual reproduction, ionic regulatory mechanisms
1977 Nov p 128-138 [1372]
- human physiology, 60-hour-old embryo
1950 July p 28
- fertilization of flowers, flower, pollinators, species specificity
1951 June p 52-56
- fertilizers, insecticide, herbicide, agricultural technology, chemical agriculture
1952 Aug p 15-19
- plant growth, food production, chemical industry, agricultural technology, increasing world food supply
1965 June p 62-72
- human population, food production, pollution, irrigation, biosphere, agricultural revolution, soil erosion, biosphere capacity to produce food
1970 Sept p 160-170 [1196]
- 'green revolution', India, food and agriculture, technology transfer, monsoons, irrigation, rice, agronomy, wheat, hybrid crop plants
1976 Sept p 154-163
- corn-fertilizer energy profit is 5.95 to 1.0
1976 Jan p 62
- fertilizin, fertilization, antibodies, antigen-antibody reaction
1954 June p 70-75 [43]
- fetal conditioning, heartbeat, maternal behavior, mother-child interaction, left-side preference in babyholding
1973 May p 24-29
- fetal injury, cleft palate, congenital anomalies, embryonic development, teratogenesis, rubella, teratology
1957 Oct. p 109-116
- fetal lungs, infant, hyaline membrane disease, lung, surfactant
1973 Apr p 74-85
- fetus, umbilical cord, placenta, anatomy and physiology of the umbilical cord
1952 July p 70-74
- in utero research
1959 Oct. p 87
- fetus as transplant, histocompatibility, immune response, immunological privilege, reproduction, trophoblast, nidation, placenta
1974 Apr p 36-46
- fever, leukocyte, thermoregulation, homeostasis, hypothalamus, etiology of fever
1957 June p 62-68
- aspirin, inflammation, analgesics, histamine reaction, bronchospasm, anaphylactic shock, mode of action and hazards of most widely used drug
1963 Nov p 96-108
- fiber glass, composite materials, materials technology, whiskers, two-phase materials, fiber-reinforced composites, matrix, eutectics
1967 Sept. p 160-176
- fiber optics, light reflection, wave guide, image transmission, physics of light conduction
1960 Nov p 72-81
- carrier-wave modulation, coaxial cable, communication technology, electromagnetic spectrum, radio wave, communication channels, bandwidth, noise
1972 Sept p 98-113
- communication technology, laser, light pipe, light-emitting diode
1973 Nov p 28-35
- digital transmission, diode laser, glass fiber cables, light-emitting diode, light-wave communication, pulse-code modulation, lightwave telephone
1977 Aug. p 40-48 [373]
- fiber-reinforced, crystal structure, metals, whiskers, dislocations, matrix, composite materials, two-phase materials
1965 Feb p 28-37
- fiber-reinforced composites, composite materials, materials technology, whiskers, fiber glass, two-phase materials, matrix, eutectics
1967 Sept p 160-176
- cermets, composite materials, dispersion-strengthened composites, particulates
1973 July p 36-44
- fibrillation, cardiac arrhythmia, intensive care, coronary care unit, coronary occlusion, electrocardiography, nerve conduction, heart infarct
1968 July p 19-27
- fibrin, collagen, elastin, keratin, myosin, cell, polymers, polymers in living cells
1957 Sept. p 204-216 [35]
- blood clotting, hemagglutination, fibrinogen, molecular biology, thrombin, role of thrombin in converting fibrinogen into fibrin
1962 Mar p 60-66
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1962 Mar p 60-66
- fibroblasts, aging, mitosis, cell culture, somatic cells, cell, DNA replication, experiments in aging
1968 Mar p 32-37 [1103]
- wound healing, regeneration, leukocyte, collagen, epidermal cells
1969 June p 40-50 [1144]
- collagen, elastin, microfibrils
1971 June p 44-52 [1225]
- fiddler crab, biological clock, circadian rhythm
1954 Apr p 34-37
- field emission, electron beam, cold cathode, current density, X-ray photography
1964 Jan p 108-118
- field-emission microscope, microscopy, pictures of atoms
1952 May p 58-62
- crystal structure, metals, pictures of atoms
1957 June p 113-122
- field-scanning rate, color television, picture elements, line structure, technology assessment, competing color television systems weighed
1950 Dec p 13-17
- field theory, high-energy physics, Classical physics, quantum fields, elementary particles, with 20 particles known, a review of the theoretical foundations of physics
1953 Apr p 57-64 [208]
- matter, wave-particle duality, energy levels, electromagnetic force, nuclear forces, gravitation, fundamental research, quantum jumps, corpuscular streams, what is matter?
1953 Sept p 52-57 [241]
- Maxwell's equations, electromagnetism, life and work of James Clerk Maxwell
1955 June p 58-71
- mathematics, physical sciences group theory, 'eightfold way', S-matrix theory, mathematics in physics
1964 Sept p 128-146
- particle interaction, high-energy physics, gauge theory, 'weak' force, electromagnetic force, 'strong' force
1974 July p 50-59
- fighting behavior, cichlid fish, marine iguana, rattlesnake, animal behavior, comparative psychology, oryx
1961 Dec p 112-122 [470]
- figure-ground perception, pattern recognition, texture discrimination, visual perception, perceptual limitations
1975 Apr p 34-43 [563]
- filariasis, circadian rhythm, parasitism, elephantiasis, tropical disease
1958 July p 94-101
- Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis, malaria, leishmaniasis, plague, yellow fever, typhus, ep. demagogia, animal infection and human disease
1960 May p 161-170
- chemotherapy found
1949 May p 27

- film boiling, boiling, liquids, heat transfer, nuclear boiling, transition boiling 1954 June p. 64-68
- filter board, for radioactive dust 1955 Oct. p. 50
- finches, birds, mimicry, parasitism, sexual behavior, widow birds, animal behavior 1974 Oct. p. 92-98
- fingerprint, *see*: dermatoglyphics
- fire, ecology, forestry, grassland, forest fire, role of fire in climax ecology 1961 Apr. p. 150-160 [1099]
- fire protection, 'flashover', pyrolysis, flammability standards 1974 July p. 21-27
- fire ants, agricultural pest, dieldrin, pest control, insecticide 1958 Mar. p. 36-41
- fire-making, human evolution, fire vegetation, cooking, Neolithic revolution, kiln, furnace, heat, introduction to single-topic issue on heat 1954 Sept. p. 52-57
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- 'fireball blackout', arms control, atomic test ban, EMP effect, underground nuclear explosions, strategic weapons 1972 Nov. p. 15-23 [342]
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- animal communication, behavioral adaptation, bioluminescence, insect behavior, synchronous flashing of fireflies 1976 May p. 74-85
- first aid, artificial respiration 1952 Jan. p. 35
- chest-thump heart remedy 1971 Feb. p. 47
- Heimlich maneuver 1975 Dec. p. 50
- fish, swimming, laminar flow, turbulence, purposes, how fishes and sea-going mammals swim 1957 Aug. p. 48-54 [1113]
- animal behavior, marine biology, schooling behavior, sensory systems for parallel orientation 1962 June p. 128-138 [124]
- sea, food chain, plankton, marine ecology, ocean, marine life, life in the ocean 1969 Sept. p. 146-162 [884]
- bioluminescence, fish-scale crystals, tapetum lucidum, optics under water, camouflage 1971 Jan. p. 64-72 [1209]
- Death Valley, desert pupfish, species isolation, endangered species 1971 Nov. p. 104-110 [1236]
- bacteria, bioluminescence, flashlight fishes, symbiosis 1977 Mar. p. 106-114
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- fish physiology, evolution, lungfish, air-breathing fishes, Devonian period, conquest of land-breathing organs 1968 Oct. p. 102-111 [1125]
- fish population, eutrophication, water pollution, fisheries, runoff, Great Lakes, silt, U.S. Great Lakes' aging 1966 Nov. p. 94-104 [1056]
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- fisheries, aquaculture, proteins, food, tilapia, pond culture 1963 May p. 143-152
- eutrophication, water pollution, fish population, runoff, Great Lakes, silt, U.S. Great Lakes' aging 1966 Nov. p. 94-104 [1056]
- ocean, food chain, food supply, food resources of the ocean 1969 Sept. p. 178-194 [886]
- calefaction, Connecticut River, fission reactor, thermal pollution, industrial cooling, nuclear power, ecology, fish crisis 1970 May p. 42-52 [1177]
- food supply, marine farming, sea-water nutrients, upwelling, fishponds 1970 Dec. p. 14-21 [1205]
- protein for Haitians 1951 July p. 30
- fishing, anchovy crisis, El Niño, upwelling, Peru Current, Peruvian anchovy 1973 June p. 22-29 [1273]
- fishponds, food supply, fisheries, marine farming, sea-water nutrients, upwelling 1970 Dec. p. 14-21 [1205]
- five-fold fertilizer yield 1948 Dec. p. 27
- fission, *see*: nuclear fission, meiosis, mitosis, fission reactor
- fission bomb, *see*: atomic bomb
- fission fragments, nuclear fission, heavy nuclei, liquid-drop model, neutron, uranium 235, shell model 1965 Aug. p. 49-59
- fission fuels, energy consumption, energy resources, power, fossil fuel, fusion fuels, geothermal energy, solar energy, tidal energy 1971 Sept. p. 60-70 [663]
- fission products, rare earths, table of elements, abundance in fission products draws attention to rare earths 1951 Nov. p. 26-30
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- nuclear fuel cycle, plutonium separation, fission reactor, nuclear power 1952 July p. 62-67
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- food preservation? 1954 Nov. p. 50
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- zirconium, jet engines, ilmenite 1951 June p. 18-21
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- neutron beam, monochromator, neutron diffraction, neutron flux, reactor as research instrument 1953 Aug. p. 23-29 [219]
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- nuclear fuel, nuclear power, Purex process, reprocessing 1976 Dec. p. 30-41
- breeder reactor, fast neutron reactor, nuclear power, Superphénix in France 1977 Mar. p. 26-35
- environmental pollution, nuclear power, public health, radioactive waste disposal, underground storage 1977 June p. 21-31 [364]
- in Scandinavia 1951 Nov. p. 32
- low-cost 'swimming pool' 1952 July p. 35
- Fermi et al. patent 1953 Oct. p. 51
- molten U233 cycle 1954 Sept. p. 74
- Germany at work 1955 Oct. p. 44
- Calder Hall 1956 Dec. p. 52
- heavy water-liquid sodium reactor 1956 Dec. p. 53
- Zero Power Reactor No. V 1957 Jan. p. 64
- uranium reactor technology 1957 Oct. p. 57
- pressurized-water reactor 1957 Dec. p. 68
- fire safety 1958 Feb. p. 46
- experimental boiling water reactor 1958 Mar. p. 51
- boiling-water reactor technology 1958 May p. 58
- plutonium fission reactor 1958 Oct. p. 54
- gold-plated reactor vessel withstands corrosion 1959 May p. 80

- gas-cooled design for U K
U S S R developments 1965 July p 46
42 operable in U S 1965 July p 50
see also breeder reactor 1974 Mar p 41
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1969 June p 30-39
geochronology, glass age, meteorite age, mineral age, pottery age, radioactive decay, uranium fission 1976 Dec p 114-122
- Fitzgerald contraction*, ether drift, Maxwell's equations, relativity theory, Lorentz transformation, life and work of G. I. Fitzgerald
1953 Nov p 93-98
- five-fold symmetry, liquid structure, polyhedral-hole model, geometrical arrangement of molecules in a liquid 1960 Aug p 124-131 [267]
- fixation, problem solving, Gestalt psychology, insight, the 'aha' reaction
1963 Apr p 118-126 [476]
- fixed point theorems, mathematics, topology, surface deformation, contraction
1966 Jan p 105-110
- flagella, contractile proteins, keratin, myosin, epidermis, 'k m e f' group, motility in bacteria
1951 Jan p 20-24
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1960 June p 132-142
cilia, cytology, structure and function 1961 Feb p 108-116 [79]
actinomyosin, cyclosis, cilia, muscle contraction, cytology, cytoplasmic streaming, actin, myosin, underlying unity of cellular motion
1961 Sept p 184-204 [97]
ATP, axoneme, cell motility, cilia, microtubules, how cilia move, paramecium, sperm 1974 Oct p 44-52 [1304]
bacteria, bacterial motility, 'twiddling', rotation of flagella
1975 Aug p 36-44
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1976 Apr p 40-47 [1337]
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heat, oxy-aluminum torch, reaction kinetics, high temperatures-flame
1954 Sept p 84-95
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1964 Aug p 13-19
- flash floods, arroyo, climatic change 1952 Dec p 70-76
- flash photolysis, light-matter interaction, photochemistry, ultraviolet light, photolysis, triplet state, photoreduction, photooxidation, dye
1968 Sept p 158-170
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- flashlight fishes, bacteria, bioluminescence, fish, symbiosis
1977 Mar p 106-114
- 'flashover', fire, fire protection, pyrolysis, flammability standards
1974 July p 21-27
- flavonoids, carotenoids, flower pigments, pigment synthesis, anthocyanins, biochemistry and genetics of flower pigments
1964 June p 84-92 [186]
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1972 Mar p 15-21
- flavors, essential oils, oleoresins, steam distillation, vacuum distillation, perfumes
1953 Aug p 70-74
- flea jump, ectoparasites, insect cuticle, insect flight, flea resilin as elastomer
1973 Nov p 92-100 [1284]
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1965 Dec p 44-53 [1027]
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1969 Mar p 104-112
- Fleming valve*, radio, triode, De Forest, vacuum tube, Marconi, diode, rectification, De Forest's 1906 contributions
1965 Mar p 92-100
- flexagon, mathematics, hexaflexagons, flexagitation, topology, delight and depth of mathematics
1956 Dec p 162-166
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1956 Dec p 162-166
- Flexner report*, medical education, medical specialties, primary physicians, foreign medical graduates, medical research, medical care
1973 Sept p 138-148
- flies, bacteria, epidemiology, maggot, dysentery, virology, disease vector
1965 July p 92-99
- flight control system, locust, muscle contraction, insect flight, nerve network, inhibitory impulse
1968 May p 83-90
- flight safety, aerodynamics, aircraft-wake vortices, contrails, jet flight, wake turbulence
1974 Mar p 76-83
- flint tools, microwear analysis, Paleolithic archeology
1977 Nov p 103-126 [700]
- flintknapping, technique in Turkey today
1969 Apr p 51
- flip mechanism, aerodynamics, animal behavior, bird flight, insect flight, flip-flop mechanism, hovering flight, lift generation
1975 Nov p 80-87 [1331]
- 'floaters', eye, vision, retina, nature and origin of 'floaters'
1962 June p 119-127
- flood plain, Arawak Indians, earthworks, agricultural system, ridge fields, New World archeology
1967 July p 92-100
- floods, Mississippi river, meanders, alluvial valley, deltas
1951 Apr p 18-23
- economic development, irrigation, Mekong river, monsoons hydro-engineering, rice, Mekong river plan, United Nations
1963 Apr p 49-59
- flora, coal, fossil, Mississippian period, Pennsylvanian period, Carboniferous period, tropical flora, deposition of coal
1948 July p 46-51
- Antarctica, fauna, lichens, blue-green algae, ecology, Antarctica terrestrial life
1962 Sept p 212-230 [865]
- flotation, mineral separation, surfactant, bubbles, collector ions, ore beneficiation
1956 Dec p 99-110
- flow of matter, rheology, Hooke body, Newton body, St Venant body, how solids flow
1959 Dec p 122-138 [268]
- flower, fertilization of flowers, pollinators, species specificity
1951 June p 52-56
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1968 Apr p 80-90 [1105]
- bee, bumblebee energetics, symbiosis
1973 Apr p 96-102 [1270]
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1964 June p 84-92 [186]
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1949 May p 40-43
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1952 May p 49-56 [113]
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1958 Apr p 108-117 [112]
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1960 Dec p 56-63
- flowmeter, Doppler effect
1953 June p 54
- flu, see influenza
- fluid dynamics, automatic control, continuous processing, petroleum refinery, control panel, automatic chemical plant
1952 Sept p 82-96
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1964 Oct p 62-76
- amplifiers, switching, Coanda effect, logic gates
1964 Dec p 80-88
- liquid, supercooling, nucleation, cryogenics, crystal growth, behavior of supercooled fluids
1965 Jan p 38-46
- computer applications, computer modeling, scaling, wind tunnel, vortex, computer graphics
1965 Mar p 104-110
- aerospace technology, Coanda effect, aerodynamics, propulsion, nozzles, burners, nature and applications of Coanda effect
1966 June p 84-92
- pipelines, oil, gas, slurries, history and technology of pipelines
1967 Jan p 62-72
- fluid impact, meteorites, cratering, projectile, impact crater, effect of high-speed impact
1960 Oct p 128-140
- fluid inclusions, minerals, geology, Earth history, ancient fluids in crystals
1962 Oct p 38-47 [854]
- fluidization, petroleum cracking, particle bed, turbulence, gas stream, food processing
1968 July p 94-104
- fluidized sand, quicksand, alkali bog
1953 June p 97-102
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1970 Mar p 108-119
- occupational health, phosphorus, chelation, high technology disease
1958 Aug p 27-33
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1948 Oct p 20-23
- teeth, enamel, dentin, metabolism
1953 June p 38-42

- public opinion, anti-scientific attitudes, voting behavior
1955 Feb p 35-39 [453]
- cavities down 47 per cent
1952 Oct p 38
- fluoridation politics U S A
1961 Jan p 79
- fluoride, calcium held in bone and teeth
1967 Jan p 58
- fluorine, fluorocarbons, plastics, stable and promising compounds
1949 Nov p 44-47
- elements, living matter, essential elements, metallo-enzymes, silicon,
tin, vanadium, list of elements essential to life lengthened to 24
1972 July p 52-60
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1970 Apr p 48
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1949 Nov p 44-47
- in production
1951 Dec p 38
- fortified by nitrogen
1956 Oct p 68
- flute, musical instruments, vibrating air column, clarinet, oboe, bassoon,
English horn, saxophone, physics of the wood winds
1960 Oct p 144-154
- flux compression, high-pressure technology, magnetism, ultrastrong
magnetic fields, explosive compression, implosion
1965 July p 64-73
- fluxtrap, superconductivity, low-temperature physics, critical field
strength, superconductive motor, superconductive bearing,
superconductive amplifier, applications of superconductivity
1960 Mar p 74-82
- fly ash, air pollution, catalysis, combustibility, dust storms, metallurgy,
fine particles
1950 Dec p 50-53
- air pollution, corona discharge, electrocoating, electrostatics,
photocopying xerography, electrostatic precipitation and separation
1972 Mar p 46-58
- flyball governor, feedback, control loop, servomechanisms, positive
feedback, negative feedback, ecological system, nervous system,
economic system, automatic control, feedback concept
1952 Sept p 48-55
- control systems, feedback, water clock, thermostat, windmills,
automatic control, origins of feedback control
1970 Oct p 110-118
- 'flying spot' microscope, microscopy, ultraviolet radiation, ultra-
microscopy of living cells
1958 May p 38-43
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storage, composite materials, materials technology
1973 Dec p 17-23
- fog, cloud seeding, water cycle, air pollution, water drop, ice crystals,
inversion layer, smog
1968 Dec p 74-82 [876]
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growth, thyroid-stimulating hormone, prolactin, androgens,
estrogens, secondary sexual characteristics, human physiology,
endocrine system, chemical integrators of the body
1957 Mar p 76-88 [1122]
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Raman waves, 'wolf' note, physics of bowed string
1974 Jan p 87-95
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1951 Feb p 15-19
- not found
1953 Apr p 52
- antedated
1954 Sept p 76
- Folsom points, Clovis culture, hunting, mammoth-bone deposits, New
World archeology, elephant extinction
1966 June p 104-112
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1949 Oct p 16-19
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1957 Aug p 113-118
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1963 May p 143-152
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safety of additives
1972 Mar p 15-21
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1949 Jan p 28
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1956 Oct p 68
- Delaney clause in U S A legislation
1960 May p 89
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population, introduction to single-topic issue on food and
agriculture
1976 Sept p 30-39
- developing countries poverty, hunger, malnutrition, human nutrition
1976 Sept p 40-49
- amino-acid deficiencies dietary requirements, human nutrition,
metabolism
1976 Sept p 50-64
- energy cycle, nitrogen fertilizer, nutrient cycle, soil structure, food
chain
1976 Sept p 74-86
- agricultural history, animal domestication, archeology, plant
domestication
1976 Sept p 88-97
- agricultural economics, agricultural system, cropping systems
1976 Sept p 98-105
- agricultural economics, food processing, U S agriculture, 'agribusiness'
1976 Sept p 106-123
- 'green revolution', agronomy, maize, potatoes, Mexican agriculture
1976 Sept p 128-150
- 'green revolution', India, technology transfer, monsoons, irrigation,
fertilizers, rice, agronomy, wheat, hybrid crop plants
1976 Sept p 154-163
- agricultural resources, gene manipulation, irrigation, photosynthesis
1976 Sept p 164-178
- agronomy, crop yields, plant breeding, rice, wheat, maize, plant
genetics
1976 Sept p 180-194
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development
1976 Sept p 196-205
- world food production
1976 Sept p 66
- Food and Agriculture Organization, *see* F A O
- Food and Drug Administration, *see* F D A
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- foodchain, human population ecology, population density, 'the human
crop'
1956 Apr p 105-112
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1956 Dec p 46-50
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1958 Jan p 84-89 [853]
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autotrophs, heterotrophs, the ecosphere
1958 Apr p 83-92
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Antarctic convergence, biological province of Antarctic convergence
1962 Sept p 186-210
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redistribution of pollutants
1967 Mar p 24-31 [1066]
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mimicry, ecology, chemical defense against predation
1969 Feb p 22-29 [1133]
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- ocean, fisheries, food supply, food resources of the ocean
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hydrocarbons, DDT, dieltrn, avian reproduction, insecticide,
ecological effect of pesticides
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climax ecosystem, energy cycle, ecosystem, respiration, biosphere
energy cycle
1970 Sept p 64-74 [1190]
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ecosystem
1971 Sept p 104-115 [665]
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ecosystems
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fuel
1975 Mar p 76-86 [1318]
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agriculture
1976 Sept p 74-86
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safety of additives
1972 Mar p 15-21
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aboriginal culture, India, 'living prehistory' in India
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agents, safety of additives
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turbulence, gas stream
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'agribusiness'
1976 Sept p 106-123
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F A O, 'the food problem'
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1953 Oct p 31-35
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countries Julian Huxley on world population growth
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- six coelocanth 1954 Nov p 56
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economics, history and prospects of nuclear power in U S
1968 Feb p 21-31
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fuels, geothermal energy, solar energy, tidal energy
1971 Sept p 60-70 [663]
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energy policy of U S 1974 Jan p 20-29 [684]
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energy crisis, wood-fuel shortage 1977 Nov p 140-151 [391]
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photosynthesis, biosphere, atmosphere, carbon dioxide
1970 Sept p 125-132 [1193]
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biosphere, energy technology, carbon dioxide, industrial emissions,
modification of natural cycles by man 1970 Sept p 174-190 [1197]
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evolution 1972 June p 54-65 [901]
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1964 Sept p 112-127
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Malthusian doctrine, marriage age, population growth, population
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medical diagnosis, toposcope display, automata theory
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grid, interferometry 1968 Sept p 72-82
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fixation, experiments with eye-marker camera
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magnetic suspension, 900,000 g, 60 million r m
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1951 Dec p 22-25
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1953 Dec p 74-78
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1957 Mar p 90-102 [263]
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radiation in industrial chemistry 1959 Sept p 180-196
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spectroscopy, color centers, high speed chemistry
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water purification, hydrocarbon cracking 1965 June p 90-98
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Amendment 1972 Sept p 163-172 [680]

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1954 Dec p 60
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1950 Sept p 24-27
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1961 Dec p 84-94
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1953 Feb p 39
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1953 May p 54
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1960 Mar p 84
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1962 Mar p 72
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1965 Mar p 56
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1970 Aug p 44
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1972 Sept p 67
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- humor's function 1967 Sept p 106
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- Gum Nebula, ionized-hydrogen cloud, Milky Way, Strömgren sphere 1971 Dec p 20-29
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H

H-R diagram: Hertzsprung-Russell diagram

H-R diagram, globular cluster stars, dwarf stars, spectroscopy, stellar evolution, subdwarf stars bluer because poorer in heavy elements 1961 June p 111-120

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Haber process, bacteria, nitrogen cycle, nitrogen fixation, blue-green algae, biosphere, nitrate, legumes, eutrophication 1970 Sept p 136-146 [1194]

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binaural hearing 1961 Oct p 132-142 [501]
attention mechanism, speech perception, cochlea, phonetics,
neuropsychology, hearing two messages at a time
1962 Apr p 143-151 [467]
auditory illusions, perception, phonetics, speech perception, illusions,
psychology, illusions as clues to organization of perceptual
apparatus 1970 Dec p 30-33 [531]
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1973 Oct p 94-102 [1282]
loudness variations, musical dynamics, musical instruments, musical
notation, musician performance 1974 Nov p 78-95
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illusions, handedness, illusions perception, two-tone illusion
1975 Oct p 92-104 [566]
heart, cardiology, sound spectrography, heart sounds, electronic analysis
of heart sounds 1956 May p 120-130
cardiac arrhythmia, muscle contraction, coronary occlusion, cardiac
pacemaker, operation of cardiac pump 1957 May p 74-87 [62]
exercise adaptation, breathing blood circulation, hemoglobin, human
physiology 1965 May p 88-96 [1011]
heart attack, coronary occlusion, etiology and course of a principal cause
of death 1950 June p 44-46
heart cells, cell differentiation, cell aggregation, heart contraction,
myogenic rhythm, rat cardiac cells in vitro 1962 May p 141-152
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myogenic rhythm, rat cardiac cells in vitro 1962 May p 141-152
atrioventricular node, heart rate, cardiac pacemaker, sinus node
1967 Mar p 32-37 [1067]
heart disease, Aschoff bodies, rheumatic fever, streptococcus, infection,
immune response, hypersensitivity 1965 Dec p 66-74
heart embryology, embryonic development, mesoderm, first heartbeat
1959 Mar p 87-96 [56]
heart infarct, cardiac arrhythmia, intensive care, coronary care unit,
fibrillation, coronary occlusion, electrocardiography, nerve
conduction 1968 July p 19-27
heart-lung machine, dialysis, kidney machine, surgery
1954 Aug p 24-27
cardiac prostheses, cardiac surgery, Fallot tetralogy, patent ductus
arteriosus, technology and technique of open-heart surgery
1960 Feb p 76-90
heart metabolism, cardiology, Starling, 'Law of the Heart', venous
catheter study 1957 Feb p 50-54
heart muscle, structure in photographs 1951 Aug p 48-49
heart physiology, digitalis, foxglove, dropsy, digitoxin, cardiac
insufficiency, history of digitalis 1965 June p 110-119
heart rate, atrioventricular node, heart contraction, cardiac pacemaker,
sinus node 1967 Mar p 32-37 [1067]
learning, autonomic nervous system, blood pressure, curare,
electrocardiography, learning voluntary control of autonomic
nervous system 1970 Jan p 30-39 [525]
heart sounds, cardiology, sound spectrography, heart, electronic analysis
of heart sounds 1956 May p 120-130
heart surgery, arteriography, atherosclerosis, coronary bypass, coronary
occlusion 1968 Oct p 36-43
aortic shunt 1951 Apr p 33
heart transplant, artificial heart, kidney transplant, immunosuppression,
organ transplant, mechanical heart implant
1965 Nov p 38-46 [1023]
persistence of donor and donee rhythms 1970 Oct p 60
360 operations in retrospect 1978 May p 84
heartbeat, maternal behavior, mother child interaction, fetal
conditioning left-side preference in babyholding
1973 May p 24-29
heat, flame chemistry, chemical kinetics, flash tube, ram jet, velocity,
luminosity, spectroscopy 1953 May p 29-35
fire-making, human evolution, fire vegetation, cooking Neolithic
revolution, kiln, furnace, introduction to single-topic issue on heat
1954 Sept p 52-57
thermodynamics, quantum mechanics, entropy, equation of state,
energy, black body radiation, temperature, What is heat?
1954 Sept p 58-63
Carnot, Rumford, Joule, science history, pioneers in the theory of heat
1954 Sept p 60-61
1954 Sept p 64-68
life, temperature range, heat and life
flame chemistry, oxy-aluminum torch, reaction kinetics, high
temperatures flame 1954 Sept p 84-95
material, temperature limits, ablation, rocket nozzle, turbine bucket
high temperatures materials 1954 Sept p 98-106
chemistry, regenerative furnace, nitrogen fixation, temperature limits
high temperatures chemistry 1954 Sept p 109-119
propulsion, energy transformation, aerothermodynamics laminar flow
turbulence high temperatures propulsion 1954 Sept p 120-131
plasma, magnetohydrodynamics, shock tube, solar prominences very
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1954 Sept p 144-154
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1970 May p 92-101
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1977 May p 96-104 [1359]
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1952 Aug p 15-19
- DDT, soil pollution, gamma radiation, X-ray, soil ecology
1969 Apr p 88-99 [1138]
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1970 May p 15-25 [1176]
- agricultural technology, mulch, weed control, tillage without plow
1977 Jan p 28-33 [1349]
- toxin form root-nodule bacterium
1969 July p 54
- herding, hunting food gathering, tribal cultures, agricultural society,
aboriginal culture, India, 'living prehistory' in India
1967 Feb p 104-114
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nucleus chromatin, discovery of DNA
1968 June p 78-88 [1109]
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1949 Apr p 52-55
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identified as agent of heredity
1953 Feb p 47-57 [28]
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1964 Oct p 109-116 [195]
- porphyria, genetic disease, metabolic disease, George III
1969 July p 38-46 [1149]
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1970 Oct p 19-29 [1199]
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1970 Oct p 19-29 [1199]
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1966 Feb p 82-90 [1035]
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1966 Nov p 131-136 [304]
- herpes simplex, virus, chick-embryo culture, symbiosis
1949 Nov p 50-53
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1962 Apr p 80
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1963 Jan p 48-56
- adenoviruses, cancer virus, virus disease, viral vaccines
1973 Oct p 26-33
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1974 Feb p 32-40 [1289]
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1970 June p 82-96 [1180]
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1973 May p 94-100 [1272]
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1957 Dec p 98-106
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sea scattering layer, deep-sea 'layer of life'
1951 Aug p 24-28
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technology, crystal structure, diode laser, laser, light-emitting
semiconductor, solid-state electronics
1971 July p 32-40
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synapse, memory and learning at nerve-cell level
1970 July p 57-70 [1182]
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1972 June p 70-77 [1252]
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1966 Sept p 246-260
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1956 Dec p 162-166
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1973 Jan p 100-107
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1950 Dec p 18-21
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1953 Jan p 69-72
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1958 Mar p 104-114
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diving mammals, diving birds, oxygen storage, selective ischemia,
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1963 Dec p 92-106
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cold adaptation, neonatal physiology, heat production in newborn
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1965 Aug p 62-65 [1018]
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1968 Mar p 110-118 [513]
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1951 Nov p 54-55
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1953 Jan p 26-28
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1978 June p 50-59 [708]
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1977 July p 82-90 [370]
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1950 Feb p 16-19
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1968 Oct p 44-52
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1948 Oct p 18-19
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1949 Dec p 40-43
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1950 July p 40-43
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1951 Feb p 20-25
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1971 Jan p 76-84
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1964 May p 38-47
- highway engineering, automobiles, wheel bounce, road building, 'corrugated' road surface, 'washboard' road surface
1963 Jan p 128-136
- urban planning, Ciudad Guyana, cities, land ownership, economic geography, a model city in Venezuela
1965 Sept p 122-132
- urban planning, central city, cities, mass transit, open space, diversity, 'paths'
1965 Sept p 209-219
- highway safety, international statistics
1971 Feb p 46
- motor-vehicle accidents
1971 Apr p 52
- Hilbert program, Chinese remainder theory, computability theory, Diophantine equations, mathematics
1973 Nov. p 84-91
- negative proof of 10th problem
1970 Sept p 86
- Hilbert spaces, mathematics, set theory, logic, paradox, non-Euclidean space, non-commutative algebra, science, mathematics 1900-1950, undecidable questions
1950 Sept p 40-42
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1953 Nov p 80-84
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1973 May p 62-72 [908]
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1977 Apr p 30-41
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1965 Dec p 13-17
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1977 June p 82-98
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1948 June p 24
- hippopotamus, animal husbandry, antelope, giraffe, elephant, buffalo, rhinoceros, wildlife husbandry in Africa
1960 Nov p 123-134
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1969 Nov p 42-52 [652]
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1963 Nov p 96-108
- histocompatibility, fetus as transplant, immune response, immunological privilege, reproduction, trophoblast, nidation, placenta
1974 Apr p 36-46
- antigens, cell-surface antigens, graft rejection, immune response, H-2 antigens, HLA antigens
1977 Oct p 96-107 [1369]
- histocompatibility, antigens, HLA-associated diseases
1978 Jan p 64
- antibodies, cell membrane, antigens, immune response, immunoglobulin, lymphocytes, B-cells, T-cells
1976 May p 30-39 [1338]
- histones, cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, nucleoproteins, oxidative phosphorylation
1975 Feb p 46-57 [1315]
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1948 June p 12-15
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1955 Jan p 44
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1962 Sept p 60-63
- history of medicine, *see* medical history
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1953 Aug p 76-81 [1062]
- Hittites, Phoenician script, Karatepe citadel
1949 Aug p 22-23
- Arzawa, Anatolia, archeology
1955 July p 42-46
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- H.M.O., national health insurance, medical care, medical technology, multiphasic screening, Kaiser health plan, screening out the 'worried well'
1970 Apr p 15-23
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1973 Sept p 169-175
- Hoabinhian culture, Neolithic archeology, agricultural revolution, Spirit Cave site, Thailand
1972 Apr p 34-41 [675]
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1966 Feb p 92-101
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1950 July p 29
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1960 Dec p 134-144
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1963 Nov p 46-53
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1970 Jan p 40-46
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1965 June p 24-35 [300]
- laser, microscopy, white-light reconstruction, color holography
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- laser, optical communication, surveying, welding, light, laser technology
1968 Sept p 140-156
- memory, learning, brain function, interference patterns, monkey brain, holographic model, neurophysiology of remembering
1969 Jan p 73-86 [520]
- laserless holograms, white-light holograms
1976 Oct p 80-95
- character recognition by computer
1966 Jan p 48
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1968 Jan p 46
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1968 Oct p 62
- computer memory, magnetic-film holography
1969 Sept p 98
- acoustic holography, laser, sound waves, interference, acoustic imaging, nondestructive testing, medical diagnosis
1969 Oct p 36
- homeostasis, fever, leukocyte, thermoregulation, hypothalamus, etiology of fever
1957 June p 62-68
- body water, water balance, distribution between intracellular and extracellular 'compartments'
1958 Nov p 125-132
- wound shock, body fluids, shock, emergency medicine, treatment of shock
1958 Dec p 115-124
- bacterial-cell wall, lysozyme, bacterial cytoplasm, protoplasts, bacteriophage, flagella, dissection of bacteria by lysozyme
1960 June p 132-142
- thermoregulation, hypothalamus, human physiology, human body thermostat
1961 Jan p 134-147 [129]
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1965 Aug p 62-65 [1018]
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1956 Feb p 109-116
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1948 Dec p 18-25
- salmon, fish migration, animal navigation, chemotaxis
1955 Aug p 72-75
- animal behavior, developmental psychology, kittens, learning, suckling
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- animal navigation, chemotaxis, herring, shad migration, temperature as migration control
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- biological clock, bird navigation
1974 Dec p 96-107 [1311]
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1962 Dec p 56-62 [140]
- Australopithecus, Gigantopithecus, human evolution, pongids
1970 Jan p 76-85
- African hominids, brain evolution, fossil hominid brains, human brain, pongid brains, endocranial casts
1974 July p 106-115 [686]
- human evolution, Miocene fossils, primate evolution, Ramapithecus
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- hominoid, anthropoid, primate evolution, fossil primates, early relatives of man
1964 July p 50-62 [622]
- Fayum, Egypt
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- Homo, man-apes, human evolution, Australopithecus, Paranthropus, Plesianthropus
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- Homo monstrosus**, monsters, manlike creatures, mythology
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- Homo sapiens**, Neanderthal man, Charente skull, Galley Hill skull,
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- homogeneous reactor**, nuclear power, fission reactor, heavy-water reactor,
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- communication, insect behavior, bee dances, honeybee sound
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- honeybee housekeeping, pollen, hive environment
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- 'Honi' phenomenon**, visual perception, 'Ames room', personality,
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- hoof-and-mouth disease**, U S -Mexico convention 1952 Oct p 38
- Hooke**, astronomy, microbiology, science history, life and work of Robert
 Hooke 1954 Dec p 94-98
- Hooke body**, rheology, flow of matter, Newton body, St Venant body,
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- Hopewell cult**, Amerindian, burial mounds, New World archeology
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- hopping energetics**, animal behavior, kangaroos, mammalian evolution,
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- hops**, beer, enzymes, yeast, brewing fermentation, chemistry and
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- hormonal action**, lactogenesis, milk, mammary gland, casein, cell
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- hormone**, cortisone, ACTH, inflammation, degenerative diseases, stress,
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 1950 Mar p 30-37 [14]
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- fat metabolism**, tissue, obesity, fat tissue, diet, role of fat metabolism in
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- skin color, pigmentation, melanin, melanocytes, melatonin
 1961 July p 98-108
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- avian reproduction**, ring dove, breeding cycle, sexual behavior,
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 the rabbit flea and rabbit hormones 1965 Dec p 44-53 [1027]
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- marine birds**, phalarope, sexual behavior, animal behavior, parental
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- calcitonin**, thyroid, metabolism calcium metabolism, bone, human
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 1970 Oct p 42-50
- ACTH**, ATP, glucogenesis, glycolysis, epinephrine, cell metabolism,
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 1972 Aug p 97-105 [1256]
- hypothalamic hormone**, luteinizing hormone, neurohumoral factors,
 pituitary control, thyroid-stimulating hormone, TSH
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- chemotherapy**, drug effects, liver function, pharmacology, vaccine,
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- a pharmaceutical business** 1951 Mar p 30
- intermedin** 1956 Nov p 70
- medieval China** 1964 Feb p 68
- hormone-like substances**, fatty acids, feedback, drug therapy, nervous
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- hormone-sensitive neurons**, adrenal hormones, brain circuitry, gonadal
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- horn**, evolution, antler, osteogenesis, bone, keratin, ungulates, differences
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- horn flare**, musical instruments, physics of brasses, trumpet bell, trumpet
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- horology**, evolution of the clock 1959 Oct p 86
- horse**, badger, dog, cheetah, locomotion, deer, comparative anatomy,
 running, how animals run 1960 May p 148-157
- animal husbandry**, mules, donkeys, genetics and natural history of
 mule 1970 Dec p 102-109 [1208]
- horseshoe crab**, animal navigation, polarized light, Nichol prism, dichroic
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- vision, Limulus, ommatidia, visual perception, optic nerve, horseshoe
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- horticulture**, flowering, plant hormones, photoperiodicity, control of
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- virology**, 'tulipomania', benign virus infection 1960 Aug p 138-144
- hospital**, in 'family doctor' role 1972 Feb p 40
- hospital care**, medical care, medicine, physical incapacitation, morbidity,
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- medical care**, in-patient care, out-patient care, medical technology,
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- health insurance**, medical economics, medical care, third-party
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- medical technology**, medical care, ambulatory care, morbidity,
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- hospital infections**, staphylococcus, antibiotic resistance, revival of
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 1965 Dec p 44-53 [1027]
- host-restriction endonuclease**, DNA operator, DNA repressor, gene
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 1976 Jan p 64-76 [1333]
- host-specificity**, virus disease, influenza virus, bacteriophage,
 poliomyelitis virus bacteriophage, antigen-antibody reaction
 immunity, infection, viruses in infection and in the laboratory
 1951 May p 43-51
- hostility**, prejudice, insecurity, attitude survey 1950 Oct p 11-13
- hot-air engine**, Philips air engine, heat engines, external combustion
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- cryogenic technology**, Stirling cycle, refrigeration, closed cycle,
 displacer 1965 Apr p 119-127
- hot-atom chemistry**, chemical reaction nuclear reaction, hydrogen,
 chemistry at high velocity 1966 Jan p 82-90
- hot spots**, domes, island arcs, plate tectonics, ocean rifts, plumes
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- hot springs**, adaptation high temperature, low temperature, glaciation
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- housework, sex role, time spent in housework 1974 Nov p 116-120
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- urban renewal, slums, cities, relocation, eminent domain, urban planning, U S experience with Federal subsidy of urban renewal 1965 Sept p 194-204
- shantytowns, Calcutta, cities, urbanization, caste, poverty, traffic, Calcutta, a city of the poor 1965 Sept p 90-102
- shantytowns, squatters, land use, urban sociology, 'barriadas' of Lima, Peru 1967 Oct p 21-29
- building codes, building construction, construction technology 1971 Mar p 16-25 [341]
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- Housing and Urban Development, new U S cabinet office established 1965 Oct p 38
- hovering flight, helicopters, rotary-wing aircraft, ram jet 1955 Jan p 36-40
- aerodynamics, animal behavior, bird flight, insect flight, clap-fling mechanism, flip mechanism, lift generation 1975 Nov p 80-87 [1331]
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- astrophysics, red shift 1972 Feb p 41
- hull design, marine engineering, yacht design, towing tank tests, sail design 1966 Aug p 60-68
- human anatomy, Vesalius, Renaissance, medical history, his de Humani Corporis Fabrica, work of art 1948 May p 24-31
- medical history, Galen, Galen, work and influence 1957 Mar p 105-114
- sensory perception, neuropsychology, eye, ear, Descartes, 17th c approach to human perception, mechanistic hypothesis 1964 May p 108-116 [184]
- knee joint, surgical prosthesis, surgical replacement of the knee joint 1978 Jan p 44-51 [1378]
- stature and geography, correlation? 1954 Apr p 46
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- asocial behavior, behavioral psychology, criminal law, punishment, criminology, milieu therapy, behavioral science and the criminal law 1963 Nov p 39-45 [480]
- epidemiology, bubonic plague, public health, Black Death, population history, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619]
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- behavioral regression, child development, cognitive development, infant perceptions, learning 1976 Nov p 38-47 [572]
- Ford Foundation inquiry 1953 Mar p 44
- gift giving, psychological implications 1967 Oct p 62
- bystander intervention in 'emergency' 1968 June p 46
- human brain, African hominids, brain evolution, fossil hominid brains, hominid, pongid brains, endocranial casts 1974 July p 106-115 [686]
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- human evolution, man-apes, Plesianthropus Australopithecus Paranthropus, primates, hominids branched from other primates 30 million years ago 1948 May p 16-19
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- anthropology, culture as concept, science, anthropology 1900 1950 1950 Sept p 87-94
- Rh factor, Rh negative gene, Ro gene, blood typing, race 1951 Nov p 22-25
- bipedal walking, lumbar vertebrae, pelvis, lower-back pain, 'scars of human evolution' 1951 Dec p 54-57 [632]
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- fire-making fire vegetation, cooking, Neolithic revolution, kiln furnace, heat, introduction to single-topic issue on heat 1954 Sept p 52-57
- primates, oreopithecus, orepithecus in lineage of Homo sapiens 1956 June p 91-100
- anemia, sickle cell disease, hemoglobin S, malaria hematology, adaptive benefits of sickle-cell anemia 1956 Aug p 87-94 [1065]
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- communication, speech, language, origin of speech 1960 Sept p 88-96 [603]
- anthropology, steatopygia, climate, human migration, race, population, genetic variation, ancient migration and human diversity 1960 Sept p 112-127 [604]
- agricultural revolution, Fertile Crescent, cultural anthropology, Neolithic archeology, 8000 B C domestication of plants and animals 1960 Sept p 130-148 [605]
- social evolution, social behavior, cities, urban revolution 1500 B C origin of cities 1960 Sept p 153-168 [606]
- Renaissance, scientific revolution, Industrial Revolution interaction of science and technology, 13th c to 20th c 1960 Sept p 173-190
- demographics, population growth, cultural evolution, agricultural revolution, Industrial Revolution, population explosion, historical perspective on human population growth, how many ever lived 1960 Sept p 194-204 [608]
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- hand, toolmakers, hominid, evolution of the human hand 1962 Dec p 56-62 [140]
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 intelligence test, animal behavior, problem box 1951 June p 64-68
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1948 Aug p 48-53
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1954 May p 54-63
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1955 Mar p 36-43
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station, satellite tracking
1958 Jan p 23-29
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and promise of radar astronomy
1960 Aug p 50-59
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Michelson-Morley ether-drift experiment
1964 Nov p 107-114
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photography
1965 June p 24-35 [300]
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temperature standard, measurement
1968 June p 50-62
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diffraction grating, Girard grid
1968 Sept p 72-82
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light
1968 Sept p 96-108
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astronomy, energy levels, protostars
1968 Dec p 36-44
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1969 Dec p 88-95
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monomolecular films, fatty acids
1970 Mar p 108-119
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transmission, dielectric mirrors, laser
1970 Dec p 58-75
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base interferometry
1972 Feb p 72-83
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agent
1961 May p 51-57 [87]
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found to act against foreign nucleic acid
1963 Oct p 46-50 [166]
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molecule
1974 May p 78-86 [1295]
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1958 Aug p 48
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1963 Sept p 84
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1972 Oct p 47
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1971 July p 26-31 [1226]
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1977 Apr p 42-50
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1968 Feb p 52
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tides, gravitational dynamics
1973 Dec p 38-48
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dynamics, intergalactic bridges
1973 Dec p 38-48
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inverted coefficient, matrix algebra, 1947 input output table of U S
economy
1951 Oct p 15-21
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Department of Commerce input-output table
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1966 Feb p 40-48
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superconductors
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bodies
1960 July p 47-53
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1967 Mar p 102-112
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efficiencies of energy transformation pathways in industrial
civilization
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1977 Mar p 44-56
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1954 Nov p 31-35
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1955 Apr p 31-35
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management, international competition and cooperation
1969 Sept p 218-234 [888]
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1960 Apr p 83
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1948 Oct p 25
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1967 May p 44-52 [1073]
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1955 Mar p 31-35
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1958 June p 25-29
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constant
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exploration
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1964 Nov p 60
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1969 Feb p 42
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1969 Apr p 50
- for maldehyde molecule detected
1969 May p 53
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1970 June p 49
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1971 Sept p 80
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1974 Dec p 66
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dust, stellar formation, local galaxy
1977 June p 66-81 [366]
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planetary systems, cyclops project
1975 May p 80-89 [347]
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1967 Oct p 106-114
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formation, local galaxy
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motion in and of clusters clues to formation
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1974 Oct p 34-43
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evolution, supernovae, X-ray sources
1975 Dec p 38-46
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and filaments rather than clouds
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local Galaxy
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local Galaxy
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correlated with their structure
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1953 Feb p 69-76
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1949 Feb p 22-27
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1956 Jan p 34-37
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1975 July p 80-90
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1961 Feb p 70
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1961 Oct p 86
- triggered with rockets
1967 Dec p 58
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1975 Jan p 49
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1977 Sept p 105
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1953 Jan p 64-67
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1957 Sept p 156-168
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1958 Oct p 104-113
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1974 Apr p 52-62
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1951 Apr p 34
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1954 Oct p 36-39
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1978 June p 126-136 [3012]
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1954 Oct p 40-44 [234]
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1952 Apr p 82-87
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1956 Jan p 29-33
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1959 Feb p 124-134
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1960 June p 53-63
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1975 May p 54-65
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1974 Mar p 26-33 [1292]
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- liquid-fuel consumption**, fossil fuel, petroleum reserves, coal reserves, energy consumption, shale, tar sands, coal liquefaction, the fuel problem 1949 Dec p 32-39
- liquid helium**, heat conducting properties 1956 June p 62
- liquid hydrogen**, bubble chamber, cloud chamber, superheated fluid 1955 Feb p 46-50 [216]
- liquid lasers**, laser, rare-earth ions, solvation shell, chelate cage, comparison of liquid, gas and solid-state lasers 1967 June p 80-90
- liquid-metal reactor**, breeder reactor, nuclear power, fast neutron reactor, uranium cycle, thorium cycle, fission reactor, energy demand 1970 Nov p 13-21 [339]
- liquid natural gas**, natural gas, pipelines, tankers, storage, distribution of LNG 1967 Oct p 30-37
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- liquid phase**, superfluidity, helium 3, gas phase, solid state physics, quantum effects, quantum fluids, phase transitions 1976 Dec p 56-71
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- liquid state**, crystal structure, metals, X-ray diffraction, physics of metals in the liquid state 1969 July p 72-82
- liquid structure**, five-fold symmetry, polyhedral-hole model, geometrical arrangement of molecules in a liquid 1960 Aug p 124-134 [267]
- liquids**, boiling, heat transfer, nuclear boiling, transition boiling, film boiling 1954 June p 64-68
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- liquified hydrogen**, energy resources, hydrogen, electrolyzer technology, hydrogen energy economy, cryogenic storage, fuel cell 1973 Jan p 13-21
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- alcohol metabolism**, detoxification, drug inactivation, enzyme, metabolism of drugs, cirrhosis 1975 June p 22-31 [1322]
- alcoholism**, alcohol metabolism, fatty liver, malnutrition, 'empty calories', acetaldehyde, cirrhosis 1976 Mar p 25-33 [1336]
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- living matter**, elements, essential elements, metallo-enzymes, fluonne, silicon, tin, vanadium, list of elements essential to life lengthened to 24 1972 July p 52-60
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- lizard**, behavioral adaptation, 'cold-blooded' animals, pigmentation thermoregulation, reptile, behavioral thermoregulation 1959 Apr p 105-120
- lizardo Jesus Christo runs through water** 1973 Sept p 70-72
- load-bearing wall**, skyscrapers, curtain wall, building construction 1955 Mar p 44-48
- loading**, cargo handling, shipping, containerization, automatic control air transport 1968 Oct p 80-88
- lobotomy**, conditioned behavior, learning, long-term memory, short term memory, octopus, touch, sensory perception, correlation of brain structure and function in octopus 1965 Mar p 42-50 [1006]
- lobsters**, homing instinct 1950 Oct p 28
- local clusters**, supergalaxy, Milky Way, galactic clusters 1954 July p 30-35
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- local government**, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor, regional planning 1965 Sept p 134-148
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- proteins**, amino acids, peptide chain, alpha helix, enzyme catalysis, how is a protein made? 1953 Sept p 100-106
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- locomotion**, badger, dog, horse, cheetah, deer, comparative anatomy, running, how animals run 1960 May p 148-157
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- nervous system**, walking, Edward Muybridge photographs, control of walking 1976 Dec p 72-86 [1346]
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- insect behavior**, animal navigation, nervous system, insect flight, response to stimuli, schistocerca gregaria 1971 Aug p 74-81 [1231]
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- games theory**, computer theory, algorithms, problem solving, Turing machine 1965 Nov p 98-106
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- confirmation theory**, hypothesis-testing inductive proof, philosophy of science, probability 1973 May p 75-83
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- intense continuous and pulsed fields** 1965 Jan p 50
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1951 June p 42-51
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1955 June p 92-100
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1954 Sept p 132-142
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1961 Mar p 57-65
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1971 Sept p 148-160 [668]
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1975 Dec p 38-46
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1961 June p 151-162
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1952 Aug p 43-51
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1960 Apr p 55-63
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1970 July p 26-39
- maize, potatoes
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1976 Sept p 180-194
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1951 Aug p 56-59
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1952 June p 22-25
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1962 May p 86-96
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1951 Oct p 36
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1953 Apr p 50
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1950 May p 16-19
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- food supply, human population, hunger, human nutrition Incapanna eland, capybara manatee, mussels, developing countries, unorthodox food sources
1967 Feb p 27-35 [1068]
- corn, lysine, plant breeding, plant protein, agronomy, human nutrition high-lysine corn
1971 Aug p 34-42 [1229]
- alcoholism, alcohol metabolism fatty liver, liver function 'empty calories', acetaldehyde, cirrhosis
1976 Mar p 25-33 [1336]
- developing countries, poverty, hunger, food and agriculture, human nutrition
1976 Sept p 40-49
- malpractice claims, medical care, surgery, surgical specialties, mortality rates, post-operative negligence
1973 Sept p 90-98
- malpractice insurance, medical care, medical malpractice, doctor-patient relations
1976 Aug p 18-23

- Malthusian doctrine, world population, economic development
1950 Feb p 11-15
- birth control, population growth, developing countries, food
production, Julian Huxley on world population growth
1956 Mar p 64-76 [616]
- birth control, celibacy, disease, founding institutions, infanticide,
marriage age, population growth, population control in Europe
1750-1850
1972 Feb p 92-99 [674]
- mammal, duck-billed platypus, lactogenesis, isotope tracing, milk,
synthesis of milk
1957 Oct p 121-128
- mammalian brain, cerebral cortex, corpus callosum, brain hemispheres,
split-brain experiments, monkey, cat, human post-operative subject
1964 Jan p 42-52 [174]
- brain circuitry, nerve signals, sensory systems, stimulus localization,
visual perception, superior colliculus in integration at brain function
1972 Dec p 72-82 [553]
- mammalian eggs, embryonic development, oocytogenesis, meiosis,
mitosis, chromosomal anomalies, ovum, in vitro fertilization
1966 Aug. p 72-81 [1047]
- mammalian evolution, reptile, dinosaurs, paleontology, therapsids,
ichthyosaurs, evolution, origin of mammals
1949 Mar p 40-43
- continental drift, speciation, reptile evolution, radiation, genetic
convergence, Gondwanaland, Laurasia, supercontinent breakup and
animal diversification
1969 Mar p 54-64 [877]
- animal behavior, hopping energetics, kangaroos, marsupial
1977 Aug. p 78-89 [1366]
- mammary gland, lactogenesis, milk, casein, hormonal action, cell
secretion, composition and synthesis of cow's milk
1969 July p 58-68
- mammoth-bone deposits, Clovis culture, hunting, Folsom points, New
World archeology, elephant extinction
1966 June p 104-112
- mammoths, glaciation, Ice Age hunters, Mousterian assemblages,
Ukraine
1974 June p 96-105 [685]
- man mammoth cohabitation
1956 Apr p 68
- man-apes, human evolution, Plesianthropus, Australopithecus
Paranthropus, primates, hominids branched from other primates 30
million years ago
1948 May p 16-19
- human evolution, Homo, Australopithecus, Paranthropus,
Plesianthropus
1949 Nov p 20-24 [832]
- human evolution, Olduvai Gorge, toolmakers, hand axes, stone tools
1954 Jan p 66-71
- toolmakers, Olduvai Gorge, human evolution, cultural evolution, role
of tool-making in biological evolution of man, introduction to single-
topic issue
1960 Sept p 62-75 [601]
- primate evolution, hominoid, fossil primates, apes, Fayum,
Aegyptopithecus, Oligocene ancestor of hominoids
1967 Dec p 28-35 [636]
- Swartkrans man
1949 Jan p 29
- man-day, labor capability, muscle power, 'scientific management'
1971 Oct p 96-103
- man-machine interface, time-sharing, computer technology, multiple
terminals, multiple users
1966 Sept p 128-140
- communication, computer language talking computers
1975 Mar p 36-42
- management science, assembly lines, mass production, Sweden, work
satisfaction, worker teams, 'scientific management'
1975 Mar p 17-23
- manatee, malnutrition, food supply, human population, hunger, human
nutrition, Incapanna, eland, capybara, mussels developing
countries, unorthodox food sources
1967 Feb p 27-35 [1068]
- Manchester, high energy physics, Birmingham report on visit by
Leopold Infeld
1949 Nov p 40-43
- Mandarin Chinese, Chinese language, Chinese writing tones computer
translation, Chinese dialects
1973 Feb p 50-60
- manganese, trace elements, iron, zinc, copper, magnesium, iodine, human
nutrition
1953 Jan p 22-25
- from slag heaps
1952 May p 36
- manganese nodules, ocean floor, mineral resources mining industry,
minerals on the ocean floor
1960 Dec p 64-72
- plate tectonics, sea floor spreading, metals, mid-ocean ridge,
hydrothermal extraction, origin of metal deposits on ocean floor
1978 Feb p 54-61 [929]
- manic depression, animal behavior, biological clock, circadian rhythm
circannual rhythm hibernation, animal migration
1971 Apr p 72-79 [1219]
- manioc, cassava yield tripled by first systematic study
1976 Sept p 68
- manipulators, remote control, robot, feedback, automatic control,
industrial manipulators
1964 Oct p 88-96
- manlike creatures, monsters, Homo monstrosus mythology
1968 Oct. p 112-118
- mannan, algae, xylan, plant cell wall, cellulose, xylan mannan in place of
cellulose in marine plant tissue
1968 June p 102-108 [1110]
- manned space flight, moon, robot spacecraft
1960 May p 61-69
- acceleration, human physiology, weightlessness, space medicine,
human centrifuge, g stress
1962 Feb p 60-70
- moon, lunar exploration, lunar landing sites, remote sensing
1969 Oct p 54-72 [889]
- project dended as 'stunt'
1960 June p 82
- manoeverable reentry vehicle, see MARV
- manpower policy, employment levels, labor force, U S economy, women
in labor force, job creation vs job quality
1977 Nov p 43-51 [701]
- mantis shrimps, animal behavior, marine life, stomatopods
1976 Jan p 80-89
- manufacturing productivity, robot, assembly, labor-saving devices
computer applications, programmable robot for product assembly
1978 Feb p 62-74 [929]
- marasmus, diet, fasting, human nutrition, metabolism, starvation,
kwashiorkor, physiology of starvation
1971 Oct p 14-21 [1232]
- marble, architecture, sculpture, erosion, limestone, atmospheric pollution,
weathering, preservation of stone
1978 June p 126-136 [3012]
- Marconi, radio, triode, De Forest, vacuum tube, Fleming valve diode,
rectification, De Forest's 1906 contributions
1965 Mar p 92-100
- marginal farmlands, dust storms, dry-land farming, Great Plains, wind
erosion, agricultural technology
1954 July p 25-29
- marijuana, Cannabis sativa, drug abuse, consciousness, pharmacology,
sociology
1969 Dec p 17-25 [524]
- clinical and psychological effects
1969 Feb p 43
- reverse Heisenberg effect
1977 Mar p 64
- marine algae, biological clock, crabs, diatoms, sand hoppers, tidal-zone
organisms, tidal rhythms integration of biological and sidereal
cycles
1975 Feb p 70-79 [1316]
- marine biology, Woods Hole, oceanography
1949 Sept p 13-17
- food, human nutrition, food from the sea
1949 Oct p 16-19
- 'false bottom', plankton, sonar, shrimp, heteropod, deep-sea scattering
layer, deep-sea 'layer of life'
1951 Aug p 24-28
- Challenger, oceanography
1953 May p 88-94
- animal communication, fish communication, crustacea whale
porpoises, animal sounds in the sea
1956 Apr p 93-102
- abyssal life, ocean abyss, bioluminescence, fauna at 4000 meters
1957 Nov p 50-57
- buoyancy, swim bladder, chambered nautilus cuttlebone
1960 July p 118-128
- chordates, salpa, natural history
1961 Jan p 150-160
- Arctic Ocean ocean circulation telemetry, meteorology, Northeast
Passage, ice-floe islands, bathymetry, Soviet Arctic research
1961 May p 88-102
- animal behavior, fish schooling behavior, sensory systems for parallel
orientation
1962 June p 128-138 [124]
- Antarctica oceanography, food chain, krill, blue whale ecology,
Antarctic convergence, biological province of Antarctic convergence
1962 Sept p 186-210
- biosphere, continental drift, ocean evolution, Pangaea, plate tectonics
1974 Apr p 80-89 [912]
- marine birds, comparative physiology, reptile, adaptation salt excreting
glands
1959 Jan p 109-116
- phalarope sexual behavior, animal behavior, parental care sex role
hormone
1969 June p 104-111
- marine ecology, eelgrass foodchain, ecology, fungal infection account of
an ecological catastrophe
1951 Jan p 52-55
- algal bloom Dinoflagellata, acetylcholine, nerve poisons poisonous
tide
1958 Aug. p 92-98
- sea food chain, plankton ocean fish, marine life, life in the ocean
1969 Sept p 146-162 [884]
- marine pollution tar tanker wastes pelagic tar
1975 June p 90-97
- marine ecosystems, climatic change coral reefs energy cycle, fossil reefs
reef evolution
1972 June p 54-65 [901]
- marine engineering, yacht design, hull design towing tank tests sail
design
1966 Aug p 60-68
- marine farming, food supply fisheries sea-water nutrients upwelling,
fishponds
1970 Dec p 14-21 [1205]
- marine geology, continental shelf glaciation ocean shelf sediments
1969 Sept p 106-122 [882]

- marine iguana, cichlid fish, rattlesnake, fighting behavior, animal behavior, comparative psychology, oryx 1961 Dec p 112-122 [470]
 marine insect, water strider Halobates 1969 Jan p 48
 marine invertebrates, escape response, starfish, limpets, scallop, prey-predator relationship, snail, chemical signals 1972 July p 92-100 [1254]
 marine life, sea, food chain, plankton, marine ecology, ocean, fish, life in the ocean 1969 Sept p 146-162 [884]
 carbon dioxide, neuston, microlayer oceanography, ocean surface, rainwater composition, surfactant 1974 May p 62-77 [913]
 bivalves, clams, mollusks, symbiosis 1975 Apr. p 96-105
 ocean-floor animals, ocean floor photography 1975 Oct p 84-91
 animal behavior, mantis shrimps, stomatopods 1976 Jan p 80-89
 marine organisms, cell aggregation, Mesozoa, multicellular organisms 1972 Dec p 94-101 [1262]
 plankton, appendicularians 1976 July p 94-102
 marine pollution, marine ecology, tar, tanker wastes, pelagic tar 1975 June p 90-97
 marine resources, ocean floor, ocean, sea power, sea water, introduction to single-topic issue on the ocean 1969 Sept p 54-65 [879]
 marine technology, drilling platforms, ocean, supertankers, submersibles, containerization, technology and the ocean 1969 Sept p 198-217 [887]
 silicone ship coating 1960 Mar. p 90
 marine wax, biological wax, copepod lipids, coral reef wax, metabolic fuel, food chain 1975 Mar p 76-86 [1318]
 marine worm, Annelida, feather duster worm, lugworm, biological clock, circadian rhythm 1959 June p 132-142
 Mariner 2, space exploration, telemetry, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84
 Mariner 4, artificial satellite, Mars, space exploration, telemetry, spacecraft navigation, spacecraft 1966 Mar p 42-52
 interplanetary space, Mars, magnetosphere, micrometeorites, trapped radiation, atmosphere, solar wind, cosmic radiation, space exploration 1966 May p 62-72
 Mariner 6, Mars, Mariner 7, telemetry, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41
 Mariner 7, Mariner 6, Mars, telemetry, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41
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 Mariner 7 photographs, Mars 1969 Sept p 97
 Mariner 9 results, Martian topography, Martian atmosphere, planets, solar system, space exploration, polar cap, 'braided' channels, dune fields, photomosaic, volcanoes on Mars 1973 Jan p 48-69
 Mariner spacecraft, Venus expedition 1974 Apr p 48
 markedness/unmarkedness dyad, verbal communication, communication, acoustic formants, phonetics, morphemes, syntax, context sensitivity, invariant/variable dyad 1972 Sept p 72-80
 markers, electronic switching, telephone switching, electromechanical switching, electronic replaces electromechanical switch 1962 July p 132-143
 market, commerce, agricultural system, peasants, peasant markets in Haiti 1960 Aug p 112-122 [647]
 market networks, anthropology, central-place theory, People's Republic of China, Guatemala, rural markets 1975 May p 66-79
 market process, decision theory, energy economics, power production, technology assessment, tort law, economic planning 1971 Sept p 191-200 [671]
 Markov chain, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Pascal's triangle, statistics, probability theory 1964 Sept p 92-108
 marriage, Africa, sister exchange, marriage contracts 1975 Dec p 84-94
 marriage age, birth control, celibacy, disease, founding institutions, infanticide, Malthusian doctrine, population growth, population control in Europe 1750-1850 1972 Feb p 92-99 [674]
 marriage contracts, bride price, anthropology, Sebei tribe 1973 July p 74-85
 marriage partner, girl next door 1953 Aug p 48
 marriage preferences, American Negro, skin color, blood typing, recessive gene, population genetics, genetic meaning of race 1954 Oct p 80-85
 marriage rate, abortion, population, death rate, birth rate, vital statistics, menarche, infant mortality, 1538-1812, parish registers, York, England 1970 Jan p 105-112
 Mars, polar cap, desert, atmosphere, climate, 'canals', picture from Earth bound study 1953 May p 65-73
 extraterrestrial life, infrared astronomy, Venus, atmospheric windows Jupiter, moon, spectrometry, history and recent results of infrared astronomy 1965 Aug p 20-29
 artificial satellite, space exploration, Mariner 4, telemetry, spacecraft navigation, spacecraft 1966 Mar p 42-52
 space exploration, computer enhancement, telemetry, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68
 interplanetary space, Mariner 4, magnetosphere, micrometeorites trapped radiation, atmosphere, solar wind, cosmic radiation, space exploration 1966 May p 62-72
 Venus, atmosphere, space exploration, atmospheric differences 1969 Mar p 78-88
 Mariner 6, Mariner 7, telemetry, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41
 dust storms, terrestrial planets, cratering, tectonic processes, mountain formation, erosion, hydrology, solar system 1975 Sept p 106-117
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 interplanetary navigation, navigational accuracy, spacecraft navigation Viking missions 1976 June p 58-74
 Deimos, Martian moons, Phobos, Mariner spacecraft missions 1977 Feb p 30-37 [352]
 Martian atmosphere, dust storms, dry ice fogs, wind erosion, Mariner voyages 1977 July p 34-43
 extraterrestrial life, space exploration, Viking lander experiments 1977 Nov p 52-61 [389]
 Viking landers, Viking orbiters, Martian surface, Martian winds orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
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 Martian water vapor 1963 Aug p 52
 first data from Mariner IV 1965 Aug p 42
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 Mariner 7 photographs 1969 Sept p 97
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 reddish color, carbon suboxide flakes(?) 1970 Feb p 46
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 Mariner 7, Phobos photographed 1970 July p 50
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 Viking missions 1972 May p 49
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 life-experiment ambiguities 1977 Feb p 48
 marshland, climate, swamp, ecology, eutrophication, wetlands natural history of marsh, effect on climate 1958 Oct p 114-122 [840]
 marsupial, opossum, death-simulation, animal behavior, playing possum by opossum and other animals 1950 Jan p 52-55
 opossum, folklore, natural history 1953 June p 88-94
 animal behavior, hopping energetics, kangaroos, mammalian evolution 1977 Aug p 78-89 [1366]
 Martian atmosphere, Martian topography, Mariner 9 results, planets solar system, space exploration, polar cap, 'braided' channels, dune fields, photomosaic, volcanoes on Mars 1973 Jan p 48-69
 Mars, dust storms, dry ice fogs, wind erosion, Mariner voyages 1977 July p 34-43
 Martian moons, Deimos, Mars, Phobos, Mariner spacecraft missions 1977 Feb p 30-37 [352]
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 Martian surface, Mars, Viking landers, Viking orbiters Martian winds, orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
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 Martian winds, Mars, Viking landers, Viking orbiters Martian surface orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
 MARV: maneuverable reentry vehicle

- MARV**, mutual assured destruction, counterforce strategy, military expenditures, SALT, arms race, MIRV 1974 May p 20-31
- maser**: microwave amplification by stimulated emission of radiation
- maser**, atomic clock, ammonia maser, cesium clock, zenith tube, mercury mirror, improvements on sidereal time 1957 Feb p 71-82 [225]
- microwave amplification**, stimulated emission, quantum mechanics, coherent radiation, principles and uses of maser 1958 Dec p 42-50 [215]
- laser**, coherent radiation, stimulated emission, first lasers as 'optical masers' 1961 June p 52-61 [274]
- microwaves**, interstellar matter, hydroxyl radical, infrared astronomy, energy levels, protostars, interferometry 1968 Dec p 36-44
- cosmic masers**, hydroxyl maser, water maser, maser star, interstellar matter, astrophysics, quantum mechanics, 'nature imitates art' 1978 June p 90-105
- talking maser** 1961 Mar p 91
- stimulated by two photons** 1965 Oct p 40
- see also* laser
- maser star**, maser, cosmic masers, hydroxyl maser, water maser, interstellar matter, astrophysics, quantum mechanics, 'nature imitates art' 1978 June p 90-105
- maser telescope**, precision of solid-state maser 1958 June p 46
- mass**, spectroscopy, vacuum, ultra-high vacuum, oil diffusion pump, sputter-ion pump, cryogenic pump, vacuum down to 10^{12} mm of mercury 1962 Mar p 78-90
- mass-communication media**, communication, message systems, television violence, cultural patterns, sociology, mass communications as social environment 1972 Sept p 152-160 [679]
- mass communications**, elections, public opinion, attitude survey 1953 May p 46-48
- mass production**, assembly lines, Sweden, work satisfaction, worker teams, management science, 'scientific management' 1975 Mar p 17-23
- mass spectroscopy**, spectroscopy, separation techniques, ion beam 1953 Mar p 68-74
- spectroscopy**, age of elements, age of universe element formation, nucleochronology, radioactive nuclei, stellar evolution, supernovae 1974 Jan p 69-77
- mass standard**, cesium clock, length standard, time standard temperature standard, interferometry, measurement 1968 June p 50-62
- mass transit**, underground transport, pneumatic propulsion, railway, gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40
- railway**, traffic patterns, cities commutation automobile, transportation, Bay Area Rapid Transit system as model for urban transportation 1965 Sept p 162-174
- urban planning**, central city, cities, highway engineering open space, diversity, 'paths' 1965 Sept p 209-219
- cities**, urban transport, computer modeling personal-transit systems, systems analysis 1969 July p 19-27
- massive nuclei**, cosmic radiation 1951 May p 26-30
- cosmic radiation**, high-energy physics, Milky Way, magnetic field, particle acceleration, supernovae, fundamental research, where do cosmic rays come from? 1953 Sept p 64-70 [239]
- massive stars**, galaxy, stellar evolution nebulae, stellar associations, massive stars are short-lived 1956 Feb p 36-41
- material resources**, recycling, biosphere, nonrenewable resources, inorganic-materials cycle 1970 Sept p 194-208 [1198]
- materials**, heat, temperature limits, ablation rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106
- nuclear power**, recycling, fusion reactor, fusion torch, energy transformation, plasma containment, magnetohydrodynamics 1971 Feb p 50-64 [340]
- materials technology**, catalysis, polymers, industrial chemistry, stereoisomers, synthesizing giant molecules 1957 Sept p 98-104
- catalysis**, polymers, industrial chemistry, stereoisomers synthesizing giant molecules 1957 Nov p 98-104
- building construction** prestressed concrete, architectural engineering 1958 July p 25-31
- crystal structure**, metals, aligned crystals alignment of crystals for control of mechanical and magnetic properties 1959 Apr p 125-141
- crystal structure**, stress fracture, metallurgy, cracks and fracture 1960 Feb p 94-104
- crystal structure** magnetism, ferrites microwave radiation, computer memory, industrial applications of iron oxides 1960 June p 92-104
- glass fiber**, optical glass ceramics amorphous solid properties of glass as 'undercooled liquid' 1961 Jan p 92-104
- glass fiber**, synthetic fiber, composite materials, plastics, properties of 'two-phase' materials 1962 Jan p 124-134
- wear**, adhesive wear, abrasive wear, corrosion, fatigue wear, surfaces in sliding contact 1962 Feb p 127-136
- electromagnetism**, superconductivity, shaped field, magnetic bottle, development and applications of supermagnets 1962 June p 60-67 [279]
- crystal structure**, steel alloys, ausform process, heat-treating for strength 1963 Aug p 72-82
- glass** metals, ceramics, polymers, chemical band, composite materials, atom, elements, introduction to single-topic issue on materials 1967 Sept p 68-79
- crystal structure**, solid-state electronics, X-ray crystallography, metals, semiconductor, nonmetals, amorphous solid, electrical conductivity 1967 Sept p 80-89
- alloys** metals, crystal structure, grain boundaries, lattice defects dislocations electron 'gas', nature of metals 1967 Sept p 90-100
- aluminates** ceramics crystal structure, silicates, heat resistance ionic bonds, covalent bonds, nature of ceramics 1967 Sept p 112-124
- amorphous solid**, glass, supercooling, crystal structure, geometry of glass, two-phase glasses 1967 Sept p 126-136
- polymers**, natural polymers, plastics, cross-linking, covalent bonds 1967 Sept p 148-156
- composite materials**, whiskers, fiber glass, two-phase materials, fiber-reinforced composites, matrix, eutectics 1967 Sept p 160-176
- heat conduction**, phonon thermal waves thermal conductivity, thermal properties of materials 1967 Sept p 180-188
- electrical conductivity**, Fermi surface, semiconductor, quantum mechanics, charge carriers electron mean free path, electrical properties of materials 1967 Sept p 194-204
- solid state physics** crystal defects epitaxial growth, surface chemistry, precipitation in solids 'doping', chemical properties of materials 1967 Sept p 210-220
- electron spin**, ferromagnetism magnetic domains hysteresis magnetic properties of materials 1967 Sept p 222-234
- spectroscopy**, color, photoelectric effect, laser, transparency optical properties of materials 1967 Sept p 238-248
- input-output analysis**, interchangeability of materials, cost assessment, price trends, metals, plastics, competition among materials 1967 Sept p 254-266
- zone refining**, zone melting, distribution coefficient, germanium silicon, single crystals purified 1967 Dec p 62-72
- steel**, transformation-induced plasticity, strength ductility 1968 Nov p 36-45
- Dance of the Solids**, a poem by John Updike, occasioned by the September 1967 issue 1969 Jan p 130-131
- metallizing**, superplasticity, microduplex structure thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28-35
- explosions**, shock waves solids, phase transitions 1969 May p 82-91
- heat resistance**, polymers plastics, aromatic hydrocarbons, high-temperature-resistant plastics 1969 July p 96-105
- alloys** metallizing diffusion, surface alloy, molten fluoride, electrolysis 1969 Aug p 38-46
- automobile propulsion**, electric power generation, energy storage, composite materials, flywheels 1973 Dec p 17-23
- inorganic polymers**, polymer structure polymeric sulfur, silicon polymers 1974 Mar p 66-74
- corundum**, crystal structure, cubic boron nitride, diamond, hardness, Mohs scale 1974 Aug p 62-70
- atomic structure**, crystallographic techniques 'extended fine structure' effect, X-ray absorption 1976 Apr p 96-103
- materials wanted**, catalogue of dreams 1953 Aug p 40
- maternal behavior**, heartbeat, mother-child interaction, fetal conditioning left-side preference in babyholding 1973 May p 24-29
- maternal deprivation**, behavioral psychology, emotional deprivation, rhesus monkeys, surrogate mother, infant monkey 'love' 1959 June p 68-74 [429]
- social deprivation**, comparative psychology, rhesus monkeys, peer group, experiments in social deprivation 1962 Nov p 136-146 [473]
- comparative psychology**, parental care, emotional development, abnormal behavior early experience and emotional development, experiments with rats 1963 June p 138-146 [478]
- maternal inheritance**, cytoplasmic inheritance reciprocal crossing, sex linked traits non-Mendelian inheritance, male sterility, paramedecium, chloroplast, plasmids, cytogene, review of evidence for an extra-

- chromosomal genetics 1950 Nov. p 30-39 [39]
 cytoplasmic inheritance, extranuclear DNA, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70-79 [1002]
- maternal mortality**, abortion, birth control, infant mortality, public opinion, legal status, incidence in U.S. and other countries 1969 Jan p 21-27 [1129]
 abortion, population, birth control, public health, infant mortality, international comparison of experience with legalization of abortion 1977 Jan p 21-27 [1348]
- mathematical concepts**, child development, how children form mathematical concepts 1953 Nov. p 74-79 [420]
- mathematical creation**, essay by Henri Poincaré 1948 Aug p 54-57
- mathematical invention**, creativity, set theory, analytic geometry, Fermat's last theorem, innovation in mathematics 1958 Sept p 66-73
- mathematical logic**, antinomy, paradox, logic, barber paradox, undecidable questions, Godel's proof, Grelling's paradox, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic 1962 Apr p 84-96
 games theory, paradox, decision theory, 'metalogic' to solve paradox 1967 July p 50-56
 Godel's proof, metalogic, undecidable questions 1971 Mar. p 50-60
 formalism, infinitesimals, Platonism, real-number line 1971 Aug p 92-99
- calculus**, Euclidean geometry, falling-stone problem, infinitesimals, method of exhaustion, nonstandard analysis 1972 June p 78-86
- mathematical model**, linear programming, decision theory 1954 Aug p 21-23
- physics**, physical models, creativity, innovation in physics 1958 Sept p 74-82
- geology**, tectonic processes, scaling, block fault, geosyncline, experimental geology 1961 Feb p 96-106
- vehicular traffic flow**, urban transport, traffic theory, modeling auto flow patterns 1963 Dec p 35-43
- Monte Carlo method**, gas kinetics, computer modeling, chemistry by computer 1964 July p 100-108
- economics**, social sciences, decision theory, mathematics in economics and other social sciences 1964 Sept p 168-182
- computer modeling**, giant molecules, cytochrome helix, myoglobin, rg, DNA 1966 June p 42-52 [1043]
- ca** phenomena, topology 1976 Apr p 65-83
- area-minimizing principle**, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93
- mathematical philosophy**, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127
- mathematical proof**, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47
- probability**, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128-138
- foundations of mathematics**, mathematical philosophy, set theory 1964 Sept p 112-127
- grammar**, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63-77
- incompleteness theory**, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47-52
- four-color-map problem**, foundations of mathematics, proof by computer 1977 Oct p 108-121 [387]
- mathematical surfaces**, area-minimizing principle, measure theory, mathematical model, soap bubbles, surface geometry 1976 July p 82-93
- mathematics**, geometry, topology, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec p 44-49
- Fermat**, Descartes, mathematics history, analytic geometry, conic sections, Euler 1949 Jan p 40-45
- games theory**, decision theory, work of J. Von Neumann and O. Morgenstern 1949 May p 22-25
- set theory**, logic, paradox, non-Euclidean space, non-commutative algebra, Hilbert spaces, science, mathematics 1900-1950, 1950 Sept p 40-42
 1952 Aug p 24-27
- Clifford**, science history, life and work of William Kingdon Clifford 1953 Feb p 78-84
- computer**, number theory, computer finds five perfect numbers 1953 Mar p 84-86
- quaternions**, complex numbers, non-commutative algebra, high-energy physics, Hamilton, life and work of William Rowan Hamilton 1954 May p 82-87
- projective geometry**, Renaissance paintings, Leonardo, Durer, Desargue's theorem, Pascal's theorem, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80-86
- Monte Carlo method**, Buffon needle problem, random numbers, probability 1955 May p 90-96
- straight line**, Euclidean geometry, geometry, curved line, reach and limits of axiomatic approach 1956 Mar p 104-114
- logic**, Carroll, Dodgson, 'Alice in Wonderland', Lewis Carroll (Charles Lutwidge Dodgson), biography 1956 Apr p 116-128
- Godel's proof**, logic, paradox, philosophy of science, undecidable problems in axioms of arithmetic 1956 June p 71-86
- hexaflexagons**, flexagon, flexagitation, topology, delight and depth of mathematics 1956 Dec p 162-166
- Bourbaki**, philosophy of science, axiomatics, science history, labors of the mathematical collective self-styled Bourbaki 1957 May p 88-99
- prime number**, science history, sieve of Eratosthenes, mathematical sieves and their uses 1958 Dec p 105-112
- Cartesian geometry**, analytic geometry, philosophy, Descartes, Rene Descartes, biography 1959 Oct p 160-173
- Koenigsberg bridges**, mnemonics, salesman's route, delight and depth in mathematics 1961 May p 148-158
- applied mathematics**, introduction to single-topic issue on mathematics 1964 Sept p 40-49
- number theory**, negative numbers, irrational numbers, complex numbers, matrix 1964 Sept p 50-59
- geometry**, topology, non-Euclidean geometry, conic sections, history and current uses of geometry 1964 Sept p 60-69
- algebra**, science history, matrix, vector 1964 Sept p 70-78
- probability**, combinatorial analysis, normal curve, Brownian motion Markov chain, Pascal's triangle, statistics, probability theory 1964 Sept p 92-108
- physical sciences**, group theory, 'eightfold way', field theory, S matrix theory, mathematics in physics 1964 Sept p 128-146
- biological sciences**, self-reproducing machine, nerve impulse, predation, Turing machine, automata theory, mathematics in biology 1964 Sept p 148-164
- control theory**, cybernetics, computer programming feedback, frequency response, stability, dynamic programming 'policy' concept 1964 Sept p 186-200
- arithmetic**, computer history, computer's contribution to mathematics 1964 Sept p 202-216
- fixed point theorems**, topology, surface deformation, contraction 1966 Jan p 105-110
- topology**, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120
- set theory**, non-Cantorian sets, Russell's paradox, Cantor, non-Euclidean geometry, axiom of choice 1967 Dec p 104-116
- philosophy**, Leibniz, calculus, symbolic logic, calculating machine, Leibniz, biography 1968 May p 94-100
- queues**, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103
- symbolic logic**, Dodgson, barber paradox, paradox 1972 July p 38-46
- Chinese remainder theory**, computability theory, Diophantine equations, Hilbert program 1973 Nov p 84-91
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1970 Aug p 14-23
- albedo, asteroids, planetesimal collisions, solar system formation
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1975 Jan p 24-33
- carbonaceous chondrites, chondrites, solar system, primordial dust
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1975 Feb p 30-38
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1960 Feb p 72
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1961 Jan p 80
- Earth satellite(?)
1965 Nov p 50
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1966 Sept p 109
- Allende meteorite, meteorite analysis
1971 Aug p 46
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1974 Aug p 50
- crater in France
1977 Nov p 75
- meteoritic amino acids, carbonaceous chondrites, chemical evolution
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1972 June p 38-46 [902]
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1960 Feb p 123-132
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1963 June p 50-59
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1951 May p 64-69
- tektites, strewn fields, origin of glassy stone
1961 Nov p 58-65 [802]
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1958 Apr p 50
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1949 Jan p 30-39
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1951 Dec p 64-70
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1954 June p 32-37
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1956 Dec p 40-45 [841]
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1957 Apr p 138-148 [849]
- condensation nuclei, ocean foam, salt particles, cloud physics rain,
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1957 Oct p 42-47
- tornadoes, radar tracking, thermal updraft, weather forecasting
1958 May p 31-37
- climate, carbon dioxide 'window', air pollution, fossil fuel threat of
'greenhouse effect'
1959 July p 41-47 [823]
- artificial satellite, ionosphere, climate, aurora borealis Van Allen belts
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1959 Aug p 37-43 [851]
- wind, cloud, lee waves, soaring, glider, esthetic exploitation of lee
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1961 Mar p 124-134
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islands, bathymetry, marine biology, Soviet Arctic research
1961 May p 88-102
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1964 Mar p 62-74
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1964 Oct p 62-76
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1969 Jan p 52-68
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1953 Dec p 49
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1957 Sept p 108
- artificial generation of winds
1962 Mar p 76

- spiral galaxies, interstellar hydrogen, radio astronomy
1955 May p 42-48
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1971 Dec p 20-29
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1974 Apr p 66-77
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1957 July p 65
- gravitational attraction of extragalactic neighbors
1958 Jan p 46
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1960 June p 84
- Milky Way galaxy, reclassified as Sc spiral
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1954 Aug. p 44-53 [47]
- Milorganite, vitamins, from Milwaukee sewage
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1969 Feb p 22-29 [1133]
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1976 Dec p 114-122
- mineral cycles, ATP, biosphere, phosphorus cycle, sulfur cycle, sulfur bacteria, carboxylation cycle, eutrophication, mineral cycles in the biosphere
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1960 Dec p 64-72
- economic development, technology transfer, industrialization, metal consumption natural resources and technological substitution
1963 Sept p 128-136
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1977 Sept p 230-244 [384]
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1952 Feb p 15-19
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1967 Nov p 74-85
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1968 Jan p 28-35
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- microwave amplification by stimulated emission of radiation, *see* maser
- microwave diodes, electromagnetic spectrum, irradiation standards, microwave radiation, risk estimation, technology assessment 1972 Feb p 13-21
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phenotype, ostrich calluses, speciation, religion, orthodoxy,
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selection theory of immunity 1961 Jan p 58-67 [78]
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counterforce strategy, strategic balance, national security
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SLBM sonar, acoustic detection 1972 July p 14-25 [345]
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MARV 1974 May p 20-31
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factor, latent viruses 1970 July p 40-46
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contraction, rat cardiac cells in vitro 1962 May p 141-152
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enzyme action, resolution of atomic structure of three molecules
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sequence, contour maps, folding of four chains, alpha chain, beta
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cooperative enzymes, allosteric enzymes, control of biochemical
reactions 1965 Apr p 36-45 [1008]
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distance measured by amino-acid substitution
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helix, hemoglobin, molecular modeling, DNA
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fiber structure and function 1958 Nov p 66-82 [19]
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cytoplasmic streaming, actin, underlying unity of cellular motion
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hypothesis 1965 Dec p 18-27 [1026]
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contraction 1974 Feb p 58-71 [1290]
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troponin calcium in muscle 1975 Nov p 36-45 [1329]
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archeology cultures of southern Arabia 1969 Dec p 36-46 [653]
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1968 Oct p 112-118

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Nagasaki casualty, Prof T Nagaidies

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nastic movement, plant movement, turgor movement, geotropism, phototropism, touch orientation

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National Academy of Engineering, established

1965 Feb p 50

National Academy of Sciences, gene manipulation, gene splicing, recombinant DNA, science policy, NIH guidelines

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1974 Feb p 72-83

National Astronomical Observatory, to be located at Kitt Peak

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National Bureau of Standards, *see* NBS

'national character', cultural anthropology, tribes

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1963 Sept p 224-232

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infectious disease, medical care, child health care, acute illness, chronic illness, delivery of medical care

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medical care financing, H M O, Kaiser health plan, Medicaid, Medicare, medical technology

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Washington proposal

1948 Oct p 24

National Ocean and Atmosphere Administration, *see* NOAA

National Science Board, fortifies N S F

1952 Jan p 38

chairs filled

1956 July p 49

National Science Foundation, *see* N S F

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ABM, arms race, ICBM, MIRV, SLBM, mutual assured destruction, counterforce strategy, strategic balance

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natural fibers, artificial fibers, spinning technology, textile fibers, yarn

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glaciation, paleontology, Agassiz, Louis Agassiz, fostering of science in America

1949 July p 48-51

opossum, marsupial, folklore

1953 June p 88-94

oysters

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estuary, ecology, a teeming life province

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chumney swift, life cycle

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insect venom, Chaga's disease, assassin bugs, predator-prey relationship, entomology

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archer fish, predator-prey relationship, animal behavior, Toxotes

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Arachnida, false scorpion, animal behavior, Chelifer canroides

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Rattus rattus, Rattus norvegicus

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cryptozoa, Berlese funnel, ecological niche, cryptosphere, animal behavior, life under rocks and rotting logs

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natural polymers, materials technology, polymers, plastics, cross linking covalent bonds

1967 Sept p 148-156

natural reactor, CANDU reactor, nuclear power, heavy-water reactor, fission reactor, CANDU system

1975 Oct p 17-27

fission products, nuclear fission, Oklo phenomenon, Precambrian reactor, uranium deposits

1976 July p 36-47

nuclear power, CANDU reactor

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natural resources, Earth crust, mining, metal ores, natural concentration of metals

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aerial photography, infrared photography, remote sensing multiband camera, remote sensing of natural resources

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distribution of wealth, economic development, middle classes, population growth, production statistics, demographic transition

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1952 Feb p 68-74

biology, evolution, philosophy of science, creativity, innovation in biology

1958 Sept p 100-113 [48]

Darwinism, Wallace, science history, life and work of Alfred Russel Wallace

1959 Feb p 70-84

genetic adaptation, human evolution, civilization, culture, human evolution in man-made environment

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fossil record, species extinction, glaciation, 'catastrophism', crises in the history of life

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Navaho, social values, Mormons, Zunis, Spanish-Americans agricultural system, comparative study of cultures in New Mexico

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Mariner 2, space exploration, telemetry, Venus, orbital motion high resolution studies of Venus

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accelerometer, aircraft navigation, air transport, inertial navigation gyroscope, commercial adaptation of military and space technology

1970 Mar p 80-86

see also interplanetary

navigation systems, arms race, tactical weapons, control systems

1977 Feb p 20-29 [691]

navigational accuracy, interplanetary navigation, Mars, spacecraft navigation, Viking missions

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NBS computer, 20 000 germanium diodes

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NBS demobilized, no military research

1954 Apr p 82-92

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- Near East archeology, Greek civilization, Nabataeans, Petra, Hellenization of Arabs 1963 Oct p 94-102
- nebulae, Milky Way, globular cluster stars, spiral arms, dust clouds, galactic center, seeing a galaxy from the inside 1950 Feb p 30-39
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- galaxy structure, interstellar matter, Milky Way, stellar formation, supernovae, galactic dust clouds, Gum Nebula, Bok globules 1972 Aug p 48-61
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- Necker cube, depth reversal, optical illusion, reversing figures, visual perception 1971 Dec p 62-71 [540]
- negative aftereffects, afterimages, optical illusion, visual perception 1976 Dec p 42-48 [574]
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- negative ion, particle accelerator, Van de Graaf generator, electrostatic belt generator, charge-changing accelerator 1970 Aug p 24-33
- negative numbers, mathematics, number theory, irrational numbers, complex numbers, matrix 1964 Sept p 50-59
- negative-pressure concept, cavitation, droplet-levitation technique, liquids, tensile strength, surface tension 1972 Dec p 58-71
- negative resistance, electric field, Gunn effect, microwave emission, solid state physics, electronics, gallium arsenide, solid state microwave generation 1966 Aug p 22-31
- negative viscosity, eddies, turbulence, wind, nonuniform flows rotating systems, viscosity 1970 July p 72-80
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- cell communication, central nervous system, ganglion reflexes, neuroreceptors, retina nerve impulse, neurotransmitters, neural synapse, cytology, neuromuscular synapse how cells communicate 1961 Sept p 209-220 [98]
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- squid, cephalopods, giant axon 1951 Apr. p. 64-69
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- nerve signals, brain circuitry, microscopy, nerve structure, olfactory system, staining techniques, Golgi stain, Nissl stain 1971 July p. 48-60 [1227]
- brain circuitry, mammalian brain, sensory systems, stimulus localization, visual perception, superior colliculus in integration at brain function 1972 Dec. p. 72-82 [553]
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- feedback, control loop, servomechanisms, flyball governor, positive feedback, negative feedback, ecological system, economic system, automatic control, feedback concept 1952 Sept. p. 45-55
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- neuromuscular synapse, nervous system, nerve impulse, nerve excitation, inhibitory impulse, neurotransmitters, acetylcholine, dynamics of inhibition 1948 Sept. p. 44-49

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- neuronal networks, creativity, neurophysiology, imagination, cerebral cortex, physiology of imagination 1958 Sept p 135-146 [65]
- brain, brain circuitry, cerebellar cortex, Purkinje cells, mossy fibers 1975 Jan p 56-71 [1312]
- neuronal response, contour perception, contrast perception, Mach bands, optical illusion, visual perception, Craik-O'Brien effect 1972 June p 90-101 [543]
- neuronal specificity, brain circuitry, embryonic development, nerve cells, visual cortex, *Xenopus laevis* 1973 Feb p 26-35 [1265]
- neurons, glial cells, learning theory, memory, RNA, brain, molecular theory of memory 1961 Dec p 62-70 [134]
- aplysia, behavior, learning, memory, synapse, heterosynaptic facilitation, memory and learning at nerve-cell level 1970 July p 57-70 [1182]
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- obesity, human nutrition, hunger, appetite, physiological mechanisms of overeating 1956 Nov p 108-116
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- brain, cerebellum, central nervous system, cerebrum, cerebellar coordination 1958 Aug p 84-90 [38]
- creativity, imagination, neuronal networks, cerebral cortex, physiology of imagination 1958 Sept p 135-146 [65]
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- fortification illusions, migraine headaches, optical illusion 1971 May p 88-96 [536]
- binocular vision, depth perception, eye, optic chiasm, stereopsis, visual cortex 1972 Aug p 84-95 [1255]
- animal behavior, escape response, toad, visual perception, visually guided behavior 1974 Mar p 34-42 [1293]
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- motion perception, optical illusion, relative vs absolute motion 1959 July p 56-60 [409]
- pain, perception, psychology, cultural influence on pain perception 1961 Feb p 41-49 [457]
- attention mechanism, speech perception, hearing, cochlea, phonetics, hearing two messages at a time 1962 Apr p 143-151 [467]
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- neuroreceptors, cell communication, central nervous system, nerve conduction, ganglion reflexes, retina, nerve impulse, neurotransmitters, neural synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept p 209-220 [98]
- neurosecretory system, amphibian, metamorphosis, frog, thyroxine, pituitary gland, hypothalamus, hormone, chemistry of amphibian metamorphosis 1966 May p 76-88 [1042]
- neurosis, learning, stress, psychotherapy, experimental neuroses in cats 1950 Mar p 38-43 [443]
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- experimental in rats 1950 Dec p 32
- neurospora, mutation, natural selection, gene expression, Mendelian inheritance, genetic disease, tryptophan-macron relation, one gene-one enzyme hypothesis, selection for defect 1948 Sept p 30-39 [1]
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- acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional illness, central nervous system, physiological psychology, chemical mediation of nerve impulses 1957 Feb p 86-94
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- brain function, carbohydrate, serotonin, human nutrition, tryptophan, feedback 1974 Feb p 84-91 [1291]
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- brain function, cyclic AMP, dopamine, endocrine system, messenger molecules, nervous system, L-DOPA treatment, Parkinson's disease, 'second messengers', brain endocrinology 1977 Aug p 108-119 [1368]
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- astrophysics, high-energy physics, neutrino astronomy, neutrino 'telescope' 1962 Aug p 90-98 [283]
- beta decay, particle accelerator, muon neutrino, a particle interaction, 'weak' force, experiment demonstrating existence of muon neutrino 1963 Mar p 60-70 [324]
- cosmic radiation neutrinos, solar neutrinos, intermediate vector boson, scintillation counter boson, detection of natural neutrinos 1966 Feb p 40-48
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- solar corona, solar energy, solar magnetism, Sun, sunspots captured? 1975 Sept p 42-50
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- detection proposal 1956 Aug p 48
- detected by underground scintillation counter 1965 Feb p 53
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potential, inhibitory impulse, transmitter in decussate activity at th -
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- cholinesterase inhibitors 1962 Oct p. 35
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- nerve impulse, nervous system, nerve excitation, inhibitory impulse
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of inhibition 1948 Sept p. 44-49
- cell membrane, ion potential, biological role of potassium 1917 Aug p. 16-21
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contraction, science, physiology 1960-1960 1960 Oct p. 71-77
- squid, cephalopods, giant axon 1951 Apr p. 64-69
- action potential, refractory period, sodium ion potential, nodes of
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neurotransmitters, central nervous system, physiological psychology,
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1958 Dec p. 83-90
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synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept p. 209-220 [95]
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Turing machine, automata theory, mathematics in biology 1964 Sept p. 148-164
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sodium ion potential, nodes of Ranvier 1952 Nov. p. 55-65 [20]
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system, inhibitory impulse 1968 May p. 83-90
- nerve physiology, leeches, neural organization, nerve cells, nerve signals,
nervous system, reflex arc, neuro motor synapse 1974 Jan. p. 38-48 [1287]
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neurotransmitters, noradrenaline 1974 June p. 58-71 [1297]
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system, staining techniques, Golgi stain, Nissl stain 1971 July p. 48-60 [1227]
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localization, visual perception, superior colliculus in integration at
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system, staining techniques, Golgi stain, Nissl stain 1971 July p. 48-60 [1227]
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neuromuscular synapse, neurotransmitters, acetylcholine, dynamics
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feedback, negative feedback, ecological system, economic system,
automatic control, feedback concept 1952 Sept p. 42-55
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 nidation, contraception, birth control, reproduction, ovulation, fertilization 1954 Apr p 31-34
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- insect evolution, predatory wasps, solitary wasps, species specificity, predator-prey relationship, behavioral clues to evolution
1963 Apr p 144-154
- fleas, host-parasite relationship, hormone, rabbits, estrus, adaptation, the rabbit flea and rabbit hormones
1965 Dec p 44-53 [1027]
- biological clock, malaria, Plasmodium, reproduction, gametocyte, mosquitoes
1970 June p 123-131 [1181]
- ants, insect behavior, animal communication, ant 'guests', commensalism, pheromones
1971 Mar p 86-93 [1213]
- birds, finches, mimicry, sexual behavior, widow birds, animal behavior
1974 Oct p 92-98
- ants, social insect, pheromones, insect behavior, ant slavery
1975 June p 32-36 [1323]
- parathyroid hormone**, calcium metabolism, phosphate metabolism, vitamin D, osteogenesis, parathyroid function
1961 Apr p 56-63 [86]
- Paré**, military medicine, medicine, science history, surgery, life and work of Ambrose Pare
1956 Jan p 90-96
- parentage**, blood typing, forensic medicine
1954 July p 78-82
- parental care**, comparative psychology, emotional development, abnormal behavior, maternal deprivation, early experience and emotional development, experiments with rats
1963 June p 138-146 [478]
- marine birds**, phalarope, sexual behavior, animal behavior, sex role, hormone
1969 June p 104-111
- animal behavior**, innate behavior, learning, feeding behavior, sea gull chicks
1969 Dec p 98-106 [1165]
- personality**, child development, infant behavior, temperament, interaction of temperament and environment, nature-nurture
1970 Aug p 102-109 [529]
- animal behavior**, crocodile, Nile crocodile, reptile
1976 Apr p 114-124
- parity**, elementary particles, 'weak' force, symmetry, quantum, particle interaction, right and left-handed particles breakdown of parity
1957 Apr p 45-53 [231]
- antimatter**, symmetry, elementary particles, 'weak' force, particle interaction, recognition of 'fourth force'
1959 Mar p 72-84 [247]
- symmetry**, time reversal, CPT mirror, mirror images
1965 Dec p 28-36 [301]
- time reversal**, symmetry, charge conservation, lambda decay, CPT conservation, proton spin, experiments in time reversal
1969 Oct p 88-101
- violation of symmetry**
1957 Mar p 62
- Parkinson's disease**, link to 1918 flu pandemic
1961 Sept p 86
- parthenogenesis**, fertilization, sea urchin egg
1950 Dec p 46-49
- fertilization**, progesterone, hyaluronidase, zona pellucida
1951 Mar p 44-47
- in fowl**
1956 May p 64
- embryonic growth in fowl without fertilization**
1961 Feb p 72
- particle acceleration**, cosmic radiation, massive nuclei, high-energy physics, Milky Way, magnetic field, supernovae, fundamental research, where do cosmic rays come from?
1953 Sept p 64-70 [239]
- cosmic radiation**, cosmic ray showers, supernovae, galactic halo, synchrotron radiation, abundance, energies, sources of cosmic rays
1969 Feb p 50-63
- particle accelerator**, elementary particles, electron, proton, particle counters, neutron, positron, mesons, photon, neutrino, nuclear binding force, 'Meson Song'
1948 June p 26-39
- high-energy physics**, inventory of plant world-wide
1948 Oct p 18-19
- cosmotron**, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range
1951 Feb p 20-25
- strong-focusing synchrotron**, plans for 100-billion-electron-volt machine
1953 May p 40-45
- scintillation counter**, electron-multiplier tube, scintillation counters
1953 Nov p 36-41
- microwaves**, radar, klystron
1954 Mar p 84-90
- research funding**, U S S R, high-energy physics
1956 Aug p 29-35
- thermonuclear reaction**, element abundance, stellar evolution, universe, isotopes, 'synthetic' elements, experimental astrophysics
1956 Sept p 82-91
- high-energy physics**, particle-scattering experiments atomic nucleus, method and technology of high-energy physics
1960 Mar p 98-114
- spark chamber**, cloud chamber, bubble chamber, particle tracks
1962 Aug p 36-43
- particle detector**, particle physics semiconductor, solid state physics semiconductor particle-detector
1962 Oct p 78-88 [284]
- beta decay**, neutrino, muon neutrino, a particle interaction, 'weak' force, experiment demonstrating existence of muon neutrino
1963 Mar p 60-70 [1]
- magnetic monopoles**, elementary particles, electromagnetic radiation search for elementary particle of magnetism
1963 Dec p 122-
- alternating-gradient synchrotron**, 'eightfold way', omega minus particle, bubble chamber, high-energy physics, U S Brookhaven National Laboratory experiment
1964 Oct p 31
- high-energy physics**, storage rings, synchrotron, colliding beam accelerator, spark chamber
1966 Nov p 107-116 [1]
- mesons**, pions, proton, quark, high-energy physics, nucleons, Regge trajectory, high-energy scattering
1967 Dec p 76
- Van de Graaf generator**, electrostatic belt generator, charge-changing accelerator, negative ion
1970 Aug p 24
- collective-effect accelerators**, electron-ring accelerator, particle-storage rings
1972 Apr p 22
- atomic nucleus**, atomic structure, exotic atoms, kaonic atoms, muon atoms, pions, quantum mechanics, high-energy physics
1972 Nov p 102-
- beta decay**, bubble chamber experiments, high-energy physics, hadrons, neutrino beam, positron
1973 Aug p 30
- National Accelerator Laboratory**, proton beam, neutrino beam, synchrotron
1974 Feb p 72-
- at Caltech**
1952 Sept p
- 200 ft linear**
1953 Feb p
- at Oak Ridge**
1953 May p
- 'swindletron'**
1954 Jan p
- breakdown at Columbia**
1957 July p
- 12.5 BeV for Argonne**
1958 Feb p
- alternating-gradient synchrotron at Brookhaven**
1959 Feb p
- efficiency of linear accelerator**
1959 July p
- 24BeV synchrotron**
1960 Feb p
- U S S R state-of-the-art**
1960 May p
- alternating gradient synchrotron**
1960 Sept p
- mounting of 'two-neutrino' experiment**
1961 May p
- anti-xi minus creation**
1962 May p
- Cambridge Electron Accelerator**
1962 May p
- antineutrinos and neutrinos**
1962 Aug p
- alignment of proton spin axes**
1963 Mar p
- U S research and development program**
1963 July p
- superconducting accelerator**
1965 Dec p
- site chosen for U S 200 GeV accelerator**
1967 Feb p
- supercooled electron accelerator**
1968 June p
- magnet problem at Fermilab**
1972 Jan p
- NAL reaches design energy**
1972 July p
- teravolt proposal**
1975 Feb p
- proton-antiproton storage ring**
1977 Apr p
- colliding-beam accelerator**, new orders of collision energy
1978 Mar p
- particle bed**, fluidization, petroleum cracking, turbulence, gas stream food processing
1968 July p 94-10
- particle charge**, physical constants, measurement, velocity of light electron mass, least-squares method, standards of measurement, Planck's constant, Rydberg constant
1970 Oct p 62-78 [337]
- particle counters**, elementary particles, electron, proton, neutron positron, mesons, photon, neutrino, particle accelerator, nuclear binding force, 'Meson Song'
1948 June p 26-39
- radiation counters**, high-energy physics, how counters work
1950 July p 40-43
- particle detector**, particle physics semiconductor, solid state physics particle accelerator, semiconductor particle-detector
1962 Oct p 78-88 [284]
- particle interaction**, elementary particles, parity, 'weak' force, symmetry, quantum, right and left-handed particles breakdown of parity
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- antimatter**, symmetry, elementary particles 'weak' force parity, recognition of 'fourth force'
1959 Mar p 72-84 [247]
- muon**, electron 'weak' force, high energy physics, properties of massive negative particle
1961 July p 46-55 [275]
- colliding beam accelerator**, high-energy physics proton proton interaction, C E R N
1973 Nov p 36-44
- high energy physics** gauge theory, field theory, 'weak' force electromagnetic force 'strong' force
1974 July p 46-59
- electromagnetic force** gauge theory neutrino interaction 'weak' force neutral weak current interactions
1974 Dec p 16-119
- particle physics**, mesons strong interaction nuclear binding force fleeing associations of mesons and atomic nuclei
1964 Oct p 93-102 [27]

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 lambda hyperon, hyperons, hypernuclei 1962 Jan p 50-56
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 atomic nucleus, science history, Rutherford, biography 1956 Nov p 93-104
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 particulates, air pollution, smog, 'blue haze', atmospheric inversion, ozone, peroxides, photochemistry 1955 May p 62-72
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 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80-86
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 royalties for U-235 production process 1958 Dec p 54
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 pattern recognition, computer technology, artificial intelligence 1960 Aug p 60-68
 Chinese language, computer translation, experiment in machine translation 1963 June p 124-135
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 visual perception, computer graphics, stereoscopic images, texture discrimination, depth perception 1965 Feb p 38-48 [318]
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 Pavlov, conditioned behavior, behavioral psychology, biography and appraisal of I P Pavlov 1949 Sept p 44-47
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 aggression, group behavior, social psychology, experiments in group behavior 1956 Nov p 54-58 [154]
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- anthropology, central-place theory, market networks, Guatemala, rural markets 1975 May p 66-79
- A A A S symposium 1961 Feb p 66
- rate of economic growth 1972 Sept p 65
- peptide bond**, protein structure, protein synthesis, amino-acid sequence, hydrogen bonds, tertiary structure, nature, diversity and function of proteins 1950 June p 32-41 [10]
- proteins, zymogen, trypsin, proteolytic enzymes, hydrolysis, enzymes, structure and function of protein-digesting enzymes 1964 Dec p 68-79
- insulin, automatic synthesis, protein synthesis, amino acids, 'solid phase' method of synthesis, polystyrene beads 1968 Mar p 56-74 [320]
- peptide chain**, proteins, amino acids, alpha helix, enzyme catalysis, lock-and-key theory, how is a protein made? 1953 Sept p 100-106
- peptides**, kinins, kallidin, venom, inflammation, bradykinin, globulin, local hormones, production and distribution 1962 Aug p 111-118 [132]
- perception**, psychology, psychological testing, science, psychology 1900-1950 1950 Sept p 79-84
- conformity, social pressure 1955 Nov p 31-35 [450]
- central nervous system, medulla, reticular formation, brain, motor reflex, neurophysiology, attention and orienting mechanism in brain 1957 May p 54-60 [66]
- pain, psychology, neuropsychology, cultural influence on pain perception 1961 Feb p 41-49 [457]
- visual perception, form perception, learning, innate or learned form perception 1961 May p 66-72 [459]
- brain hemispheres, cerebral dominance, split-brain experiments, corpus callosum, intelligence, language, localization of brain function 1967 Aug p 24-29 [508]
- vision, retinal image-processing, visual perception, retina, visual-cell types 1969 May p 104-114 [1143]
- afterimages, phosphenes, vision, prosthesis for blind, self-illumination of visual centers 1970 Feb p 82-87
- image processing, memory, linguistic material, visual memory, remembering what is seen 1970 May p 104-112 [528]
- auditory illusions, hearing, phonetics, speech perception, illusions, psychology, illusions as clues to organization of perceptual apparatus 1970 Dec p 30-33 [531]
- crime, eye-witness testimony, memory, jury trial 1974 Dec p 23-31 [562]
- auditory perception, brain hemispheres, cerebral dominance, musical illusions, handedness, hearing, illusions, two-tone illusion 1975 Oct p 92-104 [566]
- infant shape perception 1966 May p 56
- perception of pictures, art, Escher's prints, optical illusion, psychology, visual perception 1974 July p 90-104 [560]
- perceptual development**, child development, eye-hand coordination, infant perceptions, object concept 1971 Oct p 30-38 [539]
- perceptual illusions**, central nervous system, drug-induced imagery, hallucination, perceptual-release theory 1977 Oct p 132-140 [579]
- perceptual isolation**, electroencephalography, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52-56 [430]
- perceptual learning**, psychology, learning, spatial perception, innate behavior, innate vs acquired space perception 1956 July p 71-80
- perceptual memory**, vision, eidetic images child psychology, 'photographic' memory 1969 Apr p 36-44 [522]
- perceptual transparency**, color fusion, color scission, physical transparency, optical illusion, transparency, visual perception 1974 Apr p 90-98 [559]
- percolation, brine, Red Sea hot brines, salinity, ocean floor, sea-floor spreading 1970 Apr p 32-42
- perfect square, perfect square of order 21 1978 June p 86
- perfumes, essential oils, oleoresins steam distillation, vacuum distillation, flavors 1953 Aug p 70-74
- perfusion technique**, axon, neurology, nerve conduction Schwann cell axoplasm, membrane potential, cell perfusion, structure of axonal tube, physiology of neural transmission, concentration gradients 1966 Mar p 74-82 [1038]
- perihelion shift**, artificial satellite, relativity theory, Mercury, stellar shift, electromagnetic frequency shift, clock paradox general relativity, testing Einstein's general theory of relativity 1959 May p 149-160
- periodic structures**, diffraction gemstones grain structure, opal colors silica-sphere packing 1976 Apr p 84-95
- atomic structure, crystal structure, disclinations, dislocations molecular structure 1977 Dec p 130-145 [391]
- periodic table**, 'synthetic' elements, transuranium elements, table of elements, stable isotopes, isotopes, first of a series of articles recounting the completion of the table of elements (43 [technetium], 61 [promethium], 85 [astatine] and 87 [francium]) and the first five transuranic elements (93 [neptunium], 94 [plutonium] 95 [americium], 96 [curium] and 97 [berkelium]) 1950 Apr p 38-47 [242]
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- permanent magnets**, geomagnetism, electromagnetism, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24
- cobalt-rare earth alloys, magnetism, magnetic domains, anisotropy, Alnico 1970 Dec p 92-100
- peroxides, air pollution, smog, 'blue haze', atmospheric inversion particulates, ozone, photochemistry 1955 May p 62-72
- perpetual motion**, thermodynamics, Maxwell's demon, second law of thermodynamics 1967 Nov p 103-110 [317]
- perpetual motion machines**, friction, entropy, thermodynamics 1968 Jan p 114-122
- Perseid trail**, 11 seconds in moonlight 1950 Sept p 52
- Persia**, ancient trade, archeology, writing, Elamite culture, Mesopotamian culture, Sumer, Iran, Tepe Yahya 1971 June p 102-111 [660]
- Persian Gulf fields**, Middle East oil, petroleum resources, energy economics, economic development, Iran, Iraq, Saudi Arabia 1948 Sept p 9-15
- persistent insecticides**, DDT, insecticide resistance 1952 Oct p 21-25
- personal computers**, computer modeling, microelectronics, minicomputers, FLEX, LOGO, SMALLTALK 1977 Sept p 230-244 [384]
- personal-transit systems**, cities, urban transport, computer modeling systems analysis, mass transit 1969 July p 19-27
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- anxiety, factor analysis 1963 Mar p 96-104 [475]
- behavior, self esteem, child development 1968 Feb p 96-106 [511]
- child development, parental care, infant behavior, temperament, interaction of temperament and environment, nature-nurture seven factors 1970 Aug p 102-109 [529]
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- New World archeology, Viru valley 1954 Aug p 28-34
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- climate Inca civilization New World archeology, environmental influences on early Peruvian cultures 1965 Oct p 68-71
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- lamprey, jawless fish, Great Lakes trout whitefish 1955 Apr p 36-41
- agricultural pest fire ants dielddrn insecticide 1958 Mar p 36-41
- biological pest control screw worm fly, X-ray sterilization cattle eradication of the screw worm fly 1961 Oct p 54-61
- see also biological pest control insecticide agricultural pest control like
- pesticide**, see insecticide
- Petra**, Greek civilization Nabateans Near East archeology Hellenization of Arabs 1963 Oct p 94-102

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volcanic sediments, petrified forests of Yellowstone
1964 Apr p 106-114
- petroglyphs, Paleolithic culture, rock drawings, Siberia, Paleolithic,
Neolithic periods
1969 Aug p 74-82 [649]
- petroleum, oil drilling, industrial technology, advances in drilling
technicology
1958 Nov p 99-111
- water injection, gas injection, secondary recovery
1965 July p 34-42
- proteins, food production, petroleum fermentation
1965 Oct p 13-17
- energy economics, tar sands, oil shales, shale retorts, potential liquid-
hydrocarbon reserves
1966 Feb p 21-29
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petroleum energy economy
1978 Mar p 42-49 [930]
- tertiary recovery
1953 Oct p 56
- asphalt, for beneficication of sandy soils
1967 Jan p 60
- salt domes in deep-sea floor
1969 July p 54
- strike in Japanese offshore waters
1969 Oct p 48
- petroleum consumption, surpasses coal
1953 Sept p 76
- petroleum cracking, fluidization, particle bed, turbulence, gas stream,
food processing
1968 July p 94-104
- catalysis, chemical reaction, industrial processes
1971 Dec p 46-58
- petroleum extraction, land subsidence, water injection
1967 June p 93-100
- petroleum fermentation, proteins, petroleum, food production
1965 Oct p 13-17
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dynamics, control panel, automatic chemical plant
1952 Sept p 82-96
- petroleum reserves, fossil fuel, coal reserves, energy consumption liquid-
fuel consumption, shale, tar sands, coal liquefaction, the fuel
problem
1949 Dec p 32-39
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1963 Apr p 84
- petroleum resources, Middle East oil, energy economics, Persian Gulf
fields, economic development, Iran, Iraq, Saudi Arabia
1948 Sept p 9-15
- pets, operant conditioning, learning, babies, how to teach animals
1951 Dec p 26-29 [423]
- peyote, Native American Church
1951 Oct p 38
- pH: potential of hydrogen
- pH, galvanic cell, glass electrode, hydrogen ions, acidity
1951 Jan p 40-43
- phage X174, DNA, gene mutation, single-stranded DNA
1962 July p 109-116 [128]
- phagocytosis, leukocyte, infection, antibodies, 'the first line of defense'
1951 Feb p 48-52 [51]
- active transport, passive transport, pinocytosis, cytology, osmosis, cell
membrane, fertilization, functions of cell membranes
1961 Sept p 167-180 [96]
- amoebae, cell motility, cytoplasmic streaming, sol-gel reaction, front
contraction theory of amoeboid motion
1962 Feb p 112-122 [182]
- autolysis, lysosomes, enzymes, pinocytosis, metamorphosis, cellular
digestive organ, 'suicide bag'
1963 May p 64-72 [156]
- antigens, immune response, antibodies, hypersensitivity, inflammatory
response, leukocyte, allergy, thymus gland, lymphatic system,
cellular immunity
1964 Feb p 58-64
- autolysis, lysosomes, enzymes, lysis, chromosome breakage, lysosome
implication in disease processes
1967 Nov p 62-72 [1085]
- gene expression, repressor molecules, operator-repressor system, lac
repressor, lambda repressor, isolation of two gene repressors, how
they work
1970 June p 36-44 [1179]
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1962 June p 86
- Phalangida, harvestman, daddy longlegs, Arachnida, animal behavior,
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1962 Oct p 119-128 [137]
- phalarope, marine birds, sexual behavior, animal behavior, parental care,
sex role, hormone
1969 June p 104-111
- pharaohs, Nile valley, Egyptian civilization, Sakkara, burial site, tombs of
the first pharaohs
1957 July p 106-116
- pharmaceutical industry, prostheses, F.D.A., medical care, medical
economics drug prescription, drug research, medical laboratory
services
1973 Sept p 161-166
- pharmacology, isoniazid, isotopes tuberculosis, streptomycin, para-
aminosalicylic acid, tracing action of TB drugs
1956 Nov p 135-144
- anesthesia pain, cocaine, procaine, surgery, medical research,
neuropharmacology, psychiatry, research in pain suppression
1957 Jan p 70-82
- barbiturates, hypnotics, tranquilizers, sedatives, anesthesia
1958 Jan p 60-64
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thalidomide catastrophe
1962 Aug p 29-35 [1100]
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disease, metal poisoning, heavy metal poisoning, bone cancer,
salicylates, aspirin, cancer therapy, chemotherapy, medical
exploitation of chelates
1966 May p 40-50
- Cannabis sativa, marijuana, drug abuse, consciousness, sociology
1969 Dec p 17-25 [524]
- chemotherapy, drug effects, liver function, vaccine, hormone,
antibiotics, medical care, herbal medicine
1973 Sept p 102-112
- botanical collections, food plants, herbarium resources
1977 May p 96-104 [1359]
- reserpine, synthesis
1956 July p 50
- proliferation of drugs
1961 July p 71
- pharynx, music, voice, singing voice, larynx, acoustics of singing voice
1977 Mar p 82-91
- phase memory, crystal structure, photon echoes, laser, nuclear-spin echo
1968 Apr p 32-40
- phase transitions, explosions, shock waves, materials technology, solids
1969 May p 82-91
- superfluidity, helium 3, liquid phase, gas phase, solid state physics,
quantum effects, quantum fluids
1976 Dec p 56-71
- phase velocity, light velocity, radiowave, plasma, free-electron density,
'things that go faster than light'
1960 July p 142-152
- Ph.D.: Doctor of Philosophy
1966 Mar p 57
- Ph.D.'s, origin and employment
in science and engineering, 130 per 1,000,000 U.S. population
1977 Sept p 96
- phenotype, genotype, gene expression, mutation
1949 Oct p 46-49
- Lysenkoism Lamarck, acquired characteristics, genotype, evolution,
mutation, ostrich calluses, speciation, religion, orthodoxy,
Darwinism, experiments in acquired characteristics
1953 Dec p 92-99
- pheromones, insect behavior, social insect, army ant, ants, comparative
psychology, reproduction, feedback, trophallaxis, natural history,
philosophy of science, anthropomorphism
1948 June p 16-23
- insect physiology, sexual behavior, queen substance, muskone, social
behavior, ants, Gypsy moths, mice
1963 May p 100-114 [157]
- insecticide, insect attractant, synthetic attractants, chemotaxis, odor-
baited lure, third-generation insecticides
1964 Aug p 20-27 [189]
- communication, territorial behavior, rabbits, scent glands, pecking
order, territorial marking by rabbit
1968 May p 116-126 [1108]
- ants, insect behavior, animal communication, ant 'guests',
commensalism, parasitism
1971 Mar p 86-93 [1213]
- chemotaxis, animal communication, bullheads, catfish
1971 May p 98-108 [1222]
- insect behavior, bee dances, sex attractants, courtship display
1972 Sept p 52-60 [1280]
- gypsy moth, biological pest control, olfactory receptors, sex attractants,
silk moth, chemotaxis, communication
1974 July p 28-35 [1299]
- ants, social insect, parasitism, insect behavior, ant slavery
1975 June p 32-36 [1323]
- ants, insect behavior, social insect, weaver ants
1977 Dec p 146-154 [1373]
- philanthropic foundations, Congressional investigation
1954 Mar p 44
- hearings fizzle
1954 Sept p 70
- verdict by pre-judgement
1955 Feb p 54
- intimidated, anyway
1955 Mar p 50
- Phillips air engine, heat engines, external combustion engines, Stirling
engine, hot-air engine
1948 July p 52-55
- philosopher's stone, alchemy, transmutation, science history
1952 Oct p 72-76
- philosophy, Cartesian geometry, mathematics, analytic geometry,
Descartes, Rene Descartes, biography
1959 Oct p 160-173
- Boyle's law, chemical experimentation, pneumatics, science history
1967 Aug p 96-102
- mathematics, Leibnitz, calculus, symbolic logic, calculating machine,
Leibnitz, biography
1968 May p 94-100
- grammar, truth logic, sentence, metalogic, mathematical proof,
antimony of the liar, proof and truth
1969 June p 63-77
- philosophy of science, large numbers, gambler's
fallacy
1950 Oct p 44-47
- physics crystal structure, polygons, polyhedra, axis of rotation,
topological limits of physics
1953 Jan p 50-56

- Godel's proof, mathematics, logic, paradox, undecidable problems in axioms of arithmetic 1956 June p 71-86
- astronomy, galactic clusters, universe, planetary motion, solar system, cosmology, introduction to single-topic issue on the universe 1956 Sept p 72-81
- cosmology, universe evolution, science history, a skeptical view of cosmology 1956 Sept p 224-236
- gravity, inertia, Galilean relativity, Einstein, frames of reference, relativity, identity of inertia and gravity 1957 Feb p 99-109
- mathematics, Bourbaki, axiomatics, science history, labors of the mathematical collective self-styled Bourbaki 1957 May p 88-99
- uncertainty principle, wave-particle duality 1958 Jan p 51-57 [212]
- creativity, scientific revolution, Renaissance, Leonardo, introduction to single-topic issue on innovation in science 1958 Sept p 58-65
- biology, evolution, natural selection, creativity, innovation in biology 1958 Sept p 100-113 [48]
- chance, probability, odds, calculus of chances, causation, logician's point-of-view 1965 Oct p 44-54
- confirmation theory, hypothesis-testing, logic, inductive proof, probability 1973 May p 75-83
- Snow reaffirms 'two-culture' thesis 1963 Dec p 67
- phloem, xylem, plants, radioautography, sap circulation, transport of nutrients in plant tissue 1959 Feb p 44-49 [53]
- aphids, sap circulation, xylem, trees, use of aphids to measure forces in sap flow 1963 Mar p 132-142 [154]
- phlogiston, oxygen, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68-73
- phlogiston theory, chemistry, science history, Lavoisier, biography of Antoine Lavoisier 1956 May p 84-94
- electrochemistry, electrolysis, Davy lamp, science history, Humphry Davy, biography 1960 June p 106-116
- Phobos, Deimos, Mars, Martian moons, Mariner spacecraft missions 1977 Feb p 30-37 [352]
- photographs from Viking I 1977 Apr p 57
- Phocomelia, pharmacology, thalidomide, technology assessment, U S F D A. in thalidomide catastrophe 1962 Aug p 29-35 [1100]
- Phoenician script, Hittites, Karatepe citadel 1949 Aug p 22-23
- phonetics, attention mechanism, speech perception, hearing, cochlea, neuropsychology, hearing two messages at a time 1962 Apr p 143-151 [467]
- auditory illusions, hearing, perception, speech perception, illusions, psychology, illusions as clues to organization of perceptual apparatus 1970 Dec p 30-33 [531]
- verbal communication, communication, acoustic formants, markedness/unmarkedness dyad, morphemes, syntax, context sensitivity, invariant/variable dyad 1972 Sept p 72-80
- phonology, language, Canary Islands, nonverbal communication, whistling, the whistled language of La Gomera 1957 Apr p 111-118
- phonon, sound energy, heat conduction, cryogenics, thermoelectricity, quantum mechanics of heat conduction 1962 Dec p 92-104 [288]
- heat conduction, thermal waves, materials technology, thermal conductivity, thermal properties of materials 1967 Sept p 180-188
- heat, diffusion, solid state physics, thermal waves, second sound, cryogenics, wave propagation, helium, thermal waves in solid helium 1970 May p 92-101
- phosphate metabolism, calcium metabolism, parathyroid hormone, vitamin D, osteogenesis, parathyroid function 1961 Apr p 56-63 [86]
- phosphatidic acid cycle, cell membrane, phospholipids, nerve cells, cell secretion, membrane transport potential 1965 Oct p 78-86 [1022]
- phosphatidyl choline, *see* lecithin
- phosphophenolates, afterimages, vision, perception, prosthesis for blind, self-illumination of visual centers 1970 Feb p 82-87
- phospholipids, cell membrane, phosphatidic acid cycle, nerve cells, cell secretion, membrane transport potential 1965 Oct p 78-86 [1022]
- cell membrane, membrane lipids, membrane permeability, membrane proteins, active transport 1972 Feb p 30-38 [1241]
- phosphors, absorption line, energy emission, energy transformation 1954 Oct p 62-66 [237]
- phosphorus, berilliosis, occupational health, fluorescent light chelation high technology disease 1958 Aug p 27-33
- phosphorus cycle, ATP, mineral cycles, biosphere, sulfur cycle, sulfur bacteria, carboxylation cycle, eutrophication, mineral cycles in the biosphere 1970 Sept p 148-158 [1195]
- photic zone, sonar, echo-sounding, ocean floor, plankton, deep-sea scattering layer, 'false bottom' 1962 July p 42-50
- photobiology, photosynthesis, chlorophyll, carotene, retinene, vision, phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92-108
- visible light revives uv-killed bacteria 1949 May p 27
- photocell, light amplification, photomultiplier, variable stars, stellar temperature, interstellar matter 1952 Mar p 56-59
- photochemistry, photography, emulsion, silver halide, photographic development 1952 Nov p 30-33
- air pollution, smog, 'blue haze', atmospheric inversion, particulates, ozone, peroxides 1955 May p 62-72
- photolysis, chemical reaction, reaction kinetics, free radicals spectroscopy, color centers, high speed chemistry 1960 May p 134-145
- afterimages, color vision, sensory discrimination, visual pigments photochemistry of color perception 1963 Oct p 84-93 [1089]
- vision, retina, photographic emulsion vidicon, television camera light image detection electronic camera 1968 Sept p 110-117
- light-matter interaction, flash photolysis, ultraviolet light, photolysis triplet state, photoreduction, photooxidation dye 1968 Sept p 158-170
- chloroplast, photosynthesis, electron transport, chlorophyll mechanism of photosynthesis 1969 Dec p 58-70 [1163]
- airglow, atmospheric ionization, spectroscopy, atmospheric light 1972 Jan p 78-85
- photochromism, glass darkens on exposure to light 1964 Mar p 59
- photocopying, air pollution, corona discharge, electrocoating fly ash electrostatics, xerography, electrostatic precipitation and separation 1972 Mar p 46-58
- photoelectric effect, relativity, Einstein, work of Albert Einstein appraised at 70 1949 Mar p 52-55
- ionizing radiation, Compton effect, chemical effects cytology, free radicals, lethal effects of radiation 1951 Dec p 22-25
- quantum mechanics, Planck, science history, spectroscopy, black body resonators, Einstein, Compton effect, quantum jumps 1952 Mar p 47-54 [205]
- solar battery, solid state physics, semiconductor, energy transformation 1955 Dec p 102-110
- spectroscopy, materials technology, color, laser, transparency, optical properties of materials 1967 Sept p 238-248
- color, reflection, refraction, light, resonance absorption photon electron, interaction of light with matter 1968 Sept p 60-71
- photogrammetry, cartography, Mount McKinley 1949 Jan p 46-51
- Peru, New World archeology, pre-Inca cities mapped by aerial photography 1951 Aug p 18-23
- photograph restoration, neutron activation of silver atoms 1966 Dec p 65
- photographic development, photography, emulsion, silver halide photochemistry 1952 Nov p 30-33
- photographic emulsion, particle tracks, cosmic radiation neutron, proton electron, characteristic 'signatures' of particles 1956 May p 40-47
- vision, retina, vidicon, television camera, photochemistry, light, image detection, electronic camera 1968 Sept p 110-117
- photographic lenses, glass, lens aberrations, optics 1976 Aug p 72-83
- photographic typesetting, electronic typesetting, printing digital computer, mechanical composition, cathode-ray tube computer applications 1969 Mar p 60-69
- photographic weather maps, weather satellites Tiros telemetry, atmospheric circulation, heat budget of Earth air masses 1961 July p 80-94
- videocameras, weather forecasting 1961 July p 80-94
- photography, emulsion, silver halide, photographic development photochemistry 1952 Nov p 30-33
- by amplified light 1954 Mar p 46
- color film process 1959 Mar p 62
- Polaroid one-step system 1972 July p 50
- see also* high speed photography
- photolithographic techniques, integrated circuits large scale integrated circuits manufacture of integrated circuits 1977 Sept p 110-128 [377]
- photolysis, photochemistry, chemical reaction reaction kinetics free radicals spectroscopy, color centers high speed chemistry 1960 May p 134-145
- light-matter interaction photochemistry flash photolysis ultraviolet light triplet state photoreduction photoreduction dye 1968 Sept p 110-117
- photometer, molecular weight determination of polymers by light scattering 1957 Sept p 40-49

- molecular weight determination, polymers, light scattering, viscometer, how giant molecules are measured 1957 Nov p 90-97
- photometry, light scattering, molecular size, aerosol, hydrosol, Tyndall spectra, measurement 1953 Feb p 69-76
- photomultiplier, photocell, light amplification, variable stars, stellar temperature, interstellar matter 1952 Mar p 56-59
- photon, elementary particles, electron, proton, particle counters, neutron, positron, mesons, neutrino, particle accelerator, nuclear binding force, 'Meson Song' 1948 June p 26-39
- optical pumping, microwave spectroscopy, spectroscopy, quantum jumps, technique and uses of optical pumping 1960 Oct p 72-80
- crystallography, laser, light refraction, nonlinear optics, light interactions, ultraviolet radiation 1964 Apr p 38-49
- photoelectric effect, color, reflection, refraction, light, resonance absorption, electron, interaction of light with matter 1968 Sept p 60-71
- electromagnetic radiation, Coulomb's law, quantum mechanics, mass of photon 1976 May p 86-96
- neutron, weak as well as strong interaction 1965 Feb p 51
- photon echoes, crystal structure, phase memory, laser, nuclear-spin echo 1968 Apr p 32-40
- photon emission, diffraction, light, wave-particle duality, optics, interference, electromagnetic waves, introduction to single-topic issue on light 1968 Sept p 50-59
- photooxidation, light-matter interaction, photochemistry, flash photolysis, ultraviolet light, photolysis, triplet state, photoreduction, dye 1968 Sept p 158-170
- photoperiodicity, plant hormones, germination, flowering, phototropism 1949 May p 40-43
- flowering, plant hormones, horticulture, control of flowering 1952 May p 49-56 [113]
- climate, plant growth, greenhouse, agronomy, day-night temperature, 'phytotron', environment simulator 1957 June p 82-94
- flowering, plant circulation, pigment, hormone, photoperiodicity in regulation of plant physiology 1958 Apr p 108-117 [112]
- entomology, insect diapause, Lepidoptera, hibernation governed by photoperiodicity 1960 Feb p 108-118
- plant growth, phytochrome, germination, pigments, pigment, flowering, photoreceptive enzyme in plants 1960 Dec p 56-63
- vision, photosynthesis, visual pigments, phytochrome, chlorophyll, retina cells, plant growth, light and living matter 1968 Sept p 174-186
- biological clock, circadian rhythm, house sparrow, pineal organ, nonvisual light receptors 1972 Mar p 22-29 [1243]
- biological clock, circadian rhythm, diapause, dormancy, insect behavior, insect metabolism 1976 Feb p 114-121 [1335]
- in commercial greenhouses 1950 July p 26
- in animal life 1952 Nov p 50
- photophoresis, dust cloud hypothesis, binary stars, gravitational collapse, element abundance angular momentum, origin of the Earth 1952 Oct p 53-61 [833]
- light, radiation pressure, sound-wave pressure, analogy and distinction, light- and sound-wave pressure 1957 June p 99-108
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- photosphere, magnetic field solar magnetism, Sun cycle, chromosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54-62
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- photosynthesis, chlorophyll, carbon dioxide, water, tracer experiments 1948 Aug p 24-35
- solar energy, light-to-heat conversion, photovoltaic conversion, limitations and prospects of solar power 1950 Aug p 16-21
- purple bacteria, phototropism sulfur bacteria 1951 Nov p 68-72
- atmosphere, escape velocity, volcanoes, water of crystallization, nitrogen, oxygen, origin and evolution of Earth's atmosphere 1953 Aug p 82-86 [824]
- chloroplast, grana, Hill reaction 1953 Nov p 80-84
- origins of life, Miller-Urey experiment, high-energy radiation, heterotrophs, fermentation, autotrophs 1954 Aug p 44-53 [47]
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- chlorophyll carotene, retinene vision, photobiology, phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92-108
- ATP, chlorophyll, chloroplast, primary capture of light energy in photosynthesis 1960 Nov p 104-118
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- algae, chloroplast, oxidative phosphorylation, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122]
- chlorophyll, chloroplast, electron transfer, ATP, cytochrome, pigments, role of chlorophyll in photosynthesis, 1965 July p 74-83 [1016]
- anthracene, crystallography, electron transfer, exciton, plants, organic crystals, conjugated aromatic hydrocarbons 1967 Jan p 86-97
- vision, photoperiodicity, visual pigments, phytochrome, chlorophyll, retina cells, plant growth, light and living matter 1968 Sept p 174-186
- chloroplast, photochemistry, electron transport, chlorophyll, mechanism of photosynthesis 1969 Dec p 58-70 [1163]
- biosphere, Earth, evolution, environment, atmosphere-hydrosphere cycles, introduction to single-topic issue on biosphere 1970 Sept p 44-53 [1188]
- solar radiation, biosphere, agricultural ecosystem, climax ecosystem, energy cycle, ecosystem, food chain, respiration, biosphere energy cycle 1970 Sept p 64-74 [1190]
- water cycle, transpiration, evaporation, runoff, agricultural system, ocean, precipitation, biosphere 1970 Sept p 98-108 [1191]
- chloroplast, oxygen cycle biosphere, aerobic metabolism, ozone, oxidation-reduction reactions, geological record, oxygen-carbon balance 1970 Sept p 110-123 [1192]
- calcium carbonate, carbon cycle, sedimentary rock, fossil fuel combustion, biosphere, atmosphere, carbon dioxide 1970 Sept p 125-132 [1193]
- biosphere, energy cycle, respiration, power, radiation energy, solar radiation, terrestrial radiation 1971 Sept p 88-100 [664]
- chlorophyll, chloroplast, electron transfer, light absorption 1974 Dec p 68-82 [1310]
- bacteria, cell membrane, halobacteria, rhodopsin, salt-loving bacteria 1976 June p 38-46 [1340]
- agricultural resources, gene manipulation, irrigation, food and agriculture 1976 Sept p 164-178
- in vitro 1951 Sept p 52
- light reaction 1953 Feb p 37
- role of ATP 1960 Aug p 72
- role of ferredoxin 1962 Oct p 60
- theory of quantasone operation 1962 Dec p 71
- four-carbon pathway, C4 efficiency 1972 Feb p 42
- phototropism, plant hormones, germination, flowering photoperiodicity 1949 May p 40-43
- purple bacteria, photosynthesis, sulfur bacteria 1951 Nov p 68-72
- plant movement, nastic movement, turgor movement, geotropism touch orientation 1955 Feb p 100-106
- photosynthesis, chlorophyll, carotene, retinene, vision, photobiology, bioluminescence, sunlight, life and light 1959 Oct p 92-108
- photovoltaic conversion, solar energy, light-to-heat conversion, photosynthesis, limitations and prospects of solar power 1950 Aug p 16-21
- electric power generation, semiconductor technology, silicon-crystal structure, solar cells 1976 Oct p 34-43
- Phrygian civilization, archeological excavation, Gordion, Alexander, 700 B C, preclassical Greek link with East 1959 July p 100-109
- physical anthropology, human evolution, effect of diet on hereditary features 1958 Aug p 52
- physical chemistry, molecular biology, interdisciplinary collaboration, antigen-antibody reaction, collaboration of G Beadle and L Pauling 1949 May p 16-21
- minimum energy, chemical reaction 1966 May p 61
- physical constants, measurement, velocity of light, electron mass, particle charge, least-squares method, standards of measurement, Planck's constant, Rydberg constant 1970 Oct p 62-78 [337]
- physical incapacitation, medical care, medicine, morbidity, mortality rates, hospital care, ambulatory care, triage, health insurance, introduction to single-topic issue on medical care 1973 Sept p 22-33
- physical models, physics, mathematical model, creativity, innovation in physics 1958 Sept p 74-82
- physical sciences, 'social physics', social sciences, statistics, correlating social statistics and physical law 1948 May p 20-23
- mathematics group theory, 'eightfold way', field theory, S-matrix theory, mathematics in physics 1964 Sept p 128-146

- physical standards, all atomic 1950 Oct. p. 26
- physical transparency, color fusion, color scission, perceptual transparency, optical illusion, transparency, visual perception 1974 Apr. p. 90-98 [559]
- physics, harmony, string instruments, wind instruments, piano, voice, musical scale, acoustics, agreeable melodies and physical laws 1948 July p. 32-41
- 'How Nice To Be a Physicist', songs by Arthur Roberts 1948 Sept. p. 50-51
- crystal structure, polygons, polyhedra, axis of rotation, philosophy of science, topological limits of physics 1953 Jan. p. 50-56
- politics, cosmology, Laplace, life and work of Pierre Simon de Laplace 1954 June p. 76-81
- humor, language, jocular physics, broken English, tribute to Niels Bohr 1956 Mar. p. 93-102
- physical models, mathematical model, creativity, innovation in physics 1958 Sept. p. 74-82
- see also: high-energy physics, particle physics, quantum mechanics and the like
- physics curriculum, high school, curriculum reform, science teaching, Physical Science Study Committee, university sponsored curriculum reform 1958 Apr. p. 56-64 [229]
- physics in U.S.S.R., same interests 1955 May p. 51
- physics of brasses, musical instruments, horn flare, trumpet bell, trumpet pipe 1973 July p. 24-35
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- physiological psychology, diabetes insipidus, thirst, salt excretion, electrolyte balance, thermoregulation, urine, kidney, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76
- acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional illness, neurotransmitters, central nervous system, chemical mediation of nerve impulses 1957 Feb. p. 86-94
- hypnosis, sleep, suggestibility, experiments in hypnosis 1957 Apr. p. 54-61
- animal behavior, bioelectricity, electrically controlled behavior 1962 Mar. p. 50-59 [464]
- animal behavior, sex differences, hypothalamus, testosterone, sex hormones, pituitary hormones, sex differences in rat brain, effect of testosterone 1966 Apr. p. 84-90 [498]
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- physiological tremor, muscle contraction, sensory feedback 1971 Mar. p. 65-73 [1217]
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- microsurgery, laser, cell, laser lesions, cell organelle 1970 Feb. p. 98-110 [1170]
- counter-current exchange, rete mirabile, heat conservation, swim bladder, kidney, gill, physics of a physiological invention 1957 Apr. p. 96
- see also: neurophysiology, physiological psychology, comparative physiology, human physiology
- physostigmine, alkaloids, plant physiology, morphine, strychnine, 'hemlock', caffeine, coniine, quinine, cocaine, ricinine, LSD, human toxins in plant physiology 1959 July p. 113-121 [1087]
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- antibiotic properties of Antarctic phytoplankton 1958 Oct. p. 56
- pi constant, to 2,040 places 1949 Dec. p. 30
- piano, physics, harmony, string instruments, wind instruments, voice, musical scale, acoustics, agreeable melodies and physical laws 1948 July p. 32-41
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- picturephone test, televised telephoning 1964 July p. 48
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- bone, osteogenesis, collagen, calcium metabolism, bone adaptation to mechanical stress 1965 Oct. p. 18-25 [1021]
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- pigment synthesis, carotenoids, flower pigments, flavonoids, anthocyanins, biochemistry and genetics of flower pigments 1964 June p. 84-92 [186]
- pigmentation, behavioral adaptation, 'cold-blooded' animals, thermoregulation, lizard, reptile, behavioral thermoregulation 1959 Apr. p. 105-120
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- chlorophyll, photosynthesis, chloroplast, electron transfer, ATP, cytochrome, role of chlorophyll in photosynthesis, 1965 July p. 74-83 [1016]
- pillow lava, remanent magnetism, mid-Atlantic rift, ocean ridges, sea-floor spreading, submersible research craft 1975 Aug. p. 79-90 [918]
- pilot error, psychology, instrument panel, ergonomics, designing instrument panels for their users 1953 Apr. p. 74-82 [496]
- Pittsdown man, compound fraud 1954 Jan. p. 38
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- in amoebae 1959 July p. 68
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- fluid dynamics, oil, gas, slurries, history and technology of pipelines 1967 Jan. p. 62-72
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- network analysis, nodes and branches, powergrids, graph theory, reliability analysis 1970 July p. 94-103
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- pit viper, rattlesnake, fangs, high-speed photography, rattlesnake 'bite' is a stab 1953 Oct. p. 100-102
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- goiter, thyroid, metabolism control, thyroxin, role of thyroid in governing metabolism 1960 Mar. p. 119-129
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- pituitary insufficiency, ateliosis, midgets, dwarfism, genetic disease, congenital anomalies, consanguinity, growth hormone deficiency, panhypopituitarism, General Tom Thumb 1967 July p. 102-110
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- Planck's constant, measurement, Brownian motion, time, velocity, uncertainty principle, limits of measurement 1950 July p. 48-51 [255]
- physical constants, measurement, velocity of light, electron mass, particle charge, least-squares method, standards of measurement, Rydberg constant 1970 Oct. p. 62-78 [337]
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- U.S. Federal 'mission-oriented' agencies** 1956 Nov. p. 61
- at University of California** 1957 May p. 62
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- international co-operation** 1962 July p. 74
- government-university-scientist relations** 1964 May p. 58
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- reservoir dam-building**, New World archeology, riparian sites, public works, crisis in U.S. archeology 1948 Dec. p. 12-17
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- vision, photographic emulsion, vidicon, television camera, photochemistry, light, image detection, electronic camera 1968 Sept p 110-117
- perception, vision, retinal image-processing, visual perception, visual-cell types 1969 May p 104-114 [1143]
- receptor cells, rod cells, cone cells, retinal sensitivity, retinal information processing maintains high-contrast image over broad range of illumination 1973 Jan p 70-79
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- idle and happy 1956 Feb p 60
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- blood groups, immune response, Rh incompatibility, prevention of 'Rhesus' babies 1968 Nov p 46-52 [1126]
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- social behavior, urban monkeys, learning, urban and forest monkeys in India 1969 July p 108-115 [523]
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- Rhind papyrus, mathematics, Egyptian civilization 1952 Aug p 24-27
- rhinoceros, animal husbandry, antelope, giraffe, elephant, buffalo, hippopotamus, wildlife husbandry in Africa 1960 Nov p 123-134
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- rhizobium, algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic engineering, Haber process, legumes, symbiosis, nitrogenase, biological nitrogen fixation 1977 Mar p 68-81
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- ribonuclease, insulin, protein structure, amino-acid sequence, enzyme action, myoglobin, resolution of atomic structure of three molecules 1961 Feb p 81-92 [80]
- ribonuclease synthesis, solid-phase and carboxyanhydride methods 1969 Mar p 46
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- DNA, polyribosomes, protein synthesis, RNA 1963 Dec p 44-53
- antibiotics, protein synthesis, streptomycin, genetic code, DNA, RNA, mutation, 'misreadings' induced by antibiotic alterations of ribosomes 1966 Apr p 102-109
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- template action in protein assembly 1961 June p 81
- mechanism of protein synthesis 1963 Feb p 66
- crystalline ribosome arrays in chick embryos 1967 Sept p 104
- hybrid ribosomes 1968 Nov p 56
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- right-hemisphere functions**, brain hemispheres, cerebral dominance, left-hemisphere functions, music perception, auditory perception, visual perception 1973 Mar p 70-78 [554]
- ring compounds**, chelation, metal ions, sequestering, porphyrin ring, organometallic compounds, metal-poisoning antidote, chemical separation 1953 June p 68-76
- ring dove**, avian reproduction, breeding cycle, sexual behavior, hormone, fertilization 1964 Nov p 48-54 [488]
- ring molecules**, catenanes, chemical topology, topological isomer, cyclic molecules, molecular structure, linking and knotting of ring molecules 1962 Nov p 94-102 [286]
- rip channels**, beaches, sand dune, sand bar, berm, ocean, surf, conservation of beaches 1960 Aug p 80-94 [845]
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- risk estimation**, electromagnetic spectrum, irradiation standards, microwave diodes, microwave radiation, technology assessment 1972 Feb p 13-21
- energy resources, fuel imports, liquid natural gas, technology assessment, tankers, LNG 1977 Apr p 22-29
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- river evolution**, climatic change, water erosion, rivers, drainage patterns 1967 Apr p 84-94
- riverbed**, meanders, sine-generated curve, hydraulics, least-work path for river 1966 June p 60-70 [869]
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- DNA, polyribosomes, protein synthesis, ribosome 1963 Dec p 44-53
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- structure and function 1962 Aug p 53
- replicated in test tube 1965 Nov p 50
- interferon induction 1969 Jan p 46
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- 1955 July p 54
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- RNA molecule**, genetic engineering, frog eggs, gene expression hemoglobin, mRNA 1976 Aug p 60-71 [1343]
- RNA nucleotides**, genetic code, tobacco mosaic virus protein synthesis amino-acid sequence, mutation, relation of RNA mutations to amino acid changes 1964 Oct p 46-54 [193]
- RNA synthesis**, DNA, chromosome puffs, insect chromosome hormonal induction, gene regulation 1964 Apr p 50-58 [180]
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- actinomycin, ecdysone, cortisone, insulin, estrogens, gene activation, aldosterone, growth hormone, ACTH, thyroxine mechanism of hormone action 1965 June p 36-45 [1013]
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- 1967 Sept p 103
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1952 July p 17-21
- automobiles, wheel bounce, highway engineering, 'corrugated' road surface, 'washboard' road surface
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1976 Feb p 76-86B
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1967 Nov p 74-85
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- Rockefeller Institute, Bronx is president
1953 Aug p 41
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1960 Mar p 64-73
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1956 Nov p 41-47
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1956 May p 56
- jet plane
1957 May p 64
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1954 Sept p 98-106
- rocket photograph, Earth, Earth from space
1955 Sept p 109-112
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- tick-borne infection increasing
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- cone cells, visual cells, autoradiography, protein synthesis, renewal mechanisms in retinal cells
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1973 Jan p 70-79
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1960 Jan p 60-68
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1960 June p 86
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1959 Sept p 164-176
- roller bearing, very-low-friction device
1967 Dec p 58
- Roman Britain, urban archeology, Winchester
1974 May p 32-43
- coins, counterfeiting, numismatics
1974 Dec p 120-130
- Britain, frontier life, Hadrian's Wall, Vindolanda site
1977 Feb p 39-46 [692]
- Roman civilization, Pompeii, Vesuvius eruption, two-thirds of the city's 165,000 acres
1958 Apr p 68-78
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1978 Jan p 110-120 [704]
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1954 Nov p 98-104
- life expectancy in 100-200 A D
1960 Mar p 94
- Roman glass, Egyptian glass, glass, glassmakers, faience, chemical and physical analysis of ancient glass
1963 Nov p 120-130
- Roman technology, aqueducts, siphons, water-supply system of ancient Rome
1978 May p 154-161 [3009]
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1961 Nov p 144-154
- Romania, pictograph, Vinca culture, writing, Tartaria tablets, Sumer, cultural diffusion, Sumerian writing
1968 May p 30-37
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1961 Nov p 144-154
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1960 June p 82
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1952 Oct p 78-82
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1958 Oct p 63-74
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1955 June p 82-91
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1969 Feb p 90-99
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1972 Aug p 14-23
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1955 Jan p 36-40
- rotating chemical reactions, chemical reaction, computer modeling, oscillating reagents, non linear reactions
1974 June p 82-95
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1970 July p 72-80
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1968 Jan p 100-113
- rotation period, Jupiter, Taylor column, Great Red Spot, planetary atmosphere, hydrodynamic explanation vs raft hypothesis
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- rotational energy, black hole, gravitational waves, neutron stars, pulsar, relativity theory, Red Giant stars, white dwarfs
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1966 July p 38-46
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1964 June p 46-52 [185]
- Rous-associated virus (RAV)
1963 June p 74
- Rowland, remembered
1976 Sept p 70
- Rowland engine, diffraction grating, spectroscopy, ruling engine, Strong engine, the ultimate machine
1952 June p 45-54
- Royal Navy, white pine, North American forests, King's Broad Arrow, American Revolution, colonial building
1948 June p 48-53
- Royal Navy robots, excite mutiny
1954 June p 52
- rubber, from quayule
1952 May p 37
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1956 Nov p 74-88
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1957 Oct p 109-116
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1966 July p 30-37
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1962 Sept p 104
- measles vaccine, vaccine sought
1963 May p 74
- safe vaccine reported
1966 June p 55
- vaccines ready
1969 June p 54
- autism, measles implicated in autism
1972 Dec p 42
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1954 Sept p 60-61
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1960 Oct p 158-168
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1958 Feb p 34-38
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1976 Feb p 60-75
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cattle, eradication of the screw worm fly
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communication, trademarks, language, visual stimulus, visual signals
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Mountains, cloth, leather and wood artifacts preserved by
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sDNA: satellite deoxyribonucleic acid
sDNA, DNA repeat segments, evolution, genome size, DNA-RNA
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sea, food chain, plankton, marine ecology, ocean, fish, marine life, life in
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Sea
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1969 June p 92-102
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1965 Aug p 20-29
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cerebral hemorrhage, repair and prevention of stroke by
microvascular bypass operation
1978 Apr p 58-67 [1385]
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1962 June p 80
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1963 Jan p 64
- in excess
1977 Jan p 43
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response
1964 July p 78-88
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1950 Nov p 44-47
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the knee joint
1978 Jan. p 44-51 [1378]
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claims, post-operative negligence
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for joining vessels
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technology
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1971 Dec p 30-36
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carcinogenesis
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calcium metabolism, epidemiology 1970 Dec p 76-91 [1207]
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to light 1975 July p 68-77 [1325]
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systems', survey of 123 nearby stars 1977 Apr p 96-104
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helium, superfluidity 1949 June p 30-39 [206]
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applications of superconductivity 1960 Mar p 74-82
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development and applications of supermagnets 1962 June p 60-67 [279]
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junction, quantum mechanics, confirmation and applications of
Josephson effects 1966 May p 30-39
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generation of intense magnetic fields 1967 Mar p 114-123
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absolute zero, Pomeranchuk method 1969 Dec p 26-35
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polywater, thermal conductivity, surface tension, evidence for water
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1955 Feb p 46-50 [216]
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stars counted, some speculation on their nature 1953 Jan p 17-21
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particles of 10^{16} ev energy 1959 Nov p 134-146
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 how to write a computer program 1966 Sept p 112-124
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1965 Dec p 28-36 [301]
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illness, neurotransmitters, central nervous system, physiological
psychology, chemical mediation of nerve impulses
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reflex, Renshaw cell 1966 May p 102-110
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facilitation, memory and learning at nerve-cell level
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microcircuits in the nervous system 1978 Feb p 92-103 [1380]
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asynchronous muscle, insect flight muscles
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strong-focusing synchrotron, design and purposes of big accelerators
1958 Mar p 64-76 [251]
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neutrino beam 1974 Feb p 72-83
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Accelerator 1974 Feb p 44
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1960 Nov p 94
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computer modeling, computer technology, computer as instrument
and as 'actor' in science 1966 Sept p 160-172
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errors, spoonersms 1973 Dec p 110-117 [556]
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phonetics, markedness/unmarkedness dyad, morphemes, context

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1967 June p 50
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economics, thorium cycle, breeder reactor development
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1973 Aug p 43
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1958 Feb p 76-84
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1967 May p 25-33
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age, pottery age, radioactive decay
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1977 Aug p 57
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Noah's landing-place
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forest monkeys in India
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conurbation, evolution of the metropolis
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1965 Sept p 194-204
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cities, 1500 B C origin of cities
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1968 Aug p 15-21 [638]
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Lima, Peru
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theory, modeling auto flow patterns
1963 Dec p 35-43
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1976 Dec p 25-29
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- velocity of light, physical constants, measurement, electron mass, particle charge, least-squares method, standards of measurement, Planck's constant, Rydberg constant 1970 Oct p 62-78 [337]
- Vema, seismology, ocean floor, explosion-generated sound waves map ocean floor 1962 May p 116-126
- Vening-Meinesz apparatus, geoid, Earth, gravitation anomalies, Earth's gravity 1955 Sept p 164 [812]
- venom, kinins, peptides kallidin, inflammation, bradykinin, globulin, local hormones, production and distribution 1962 Aug p 111-118 [132]
- venous system, hypertension, plethysmography, vasoconstriction, veins, actively dilating and constricting blood reservoir 1968 Jan p 86-96 [1093]
- venule, capillary bed, blood circulation, mesentery, arteriole, cardiovascular system 1959 Jan p 54-60
- Venus, Jupiter, solar system, planets, radio astronomy, measuring planetary surface temperature 1961 May p 58-65
- Manner 2, space exploration, telemetry, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84
- spectrometry, balloon astronomy, infrared astronomy 1965 Jan p 28-37
- extraterrestrial life, infrared astronomy, atmospheric windows, Mars, Jupiter, moon, spectrometry, history and recent results of infrared astronomy 1965 Aug p 20-29
- Doppler effect, planetary motion, radar astronomy, delay-Doppler mapping, Mercury, microwaves 1968 July p 28-37
- Mars, atmosphere, space exploration, atmospheric differences 1969 Mar p 78-88
- planets, solar system, Earth, cratering, Venutian atmosphere 1975 Sept p 70-78
- radio emissions 1956 July p 50
- star occultation yields atmospheric measurements 1960 Dec p 82
- solar system, Sputnik VIII Venus probe 1961 Apr p 74
- radar mapping 1962 July p 58
- Manner II data 1963 Feb p 64
- surface temperature by Manner II 1963 Apr p 80
- Mercury, planetary temperature and motion 1964 Oct p 60
- radar observations 1965 Dec p 40
- atmosphere, Venus 4 and Mariner 5 1967 Dec p 50
- Venera 7 expedition 1971 July p 44
- Venus 8 expedition 1972 Nov p 52
- radar discloses cratered topography 1973 Oct p 47
- Venus probes, solar system, astronomical unit, space exploration, Doppler effect, radar, Earth-Sun distance more precisely measured 1961 Apr p 64-72
- verbal communication, communication, acoustic formants, phonetics, markedness/unmarkedness dyad, morphemes, syntax, context sensitivity, invariant/variable dyad 1972 Sept p 72-80
- verification technology, arms control, satellite, SALT, strategic weapons, 'national technical means of verification' 1973 Feb p 14-25 [346]
- vernalization, Lysenko, genetics, potato virus, virus disease, agronomy, the Lysenko affair 1962 Nov p 41-49
- Vesalius, human anatomy, Renaissance, medical history, *his de Humani Corporis Fabrica*, work of art 1948 May p 24-31
- Vesuvius eruption, Roman civilization, Pompeii, two-thirds of the city's 165,000 acres 1958 Apr p 68-78
- vibrating air column, musical instruments, clarinet oboe flute, bassoon, English horn, saxophone, physics of the wood winds 1960 Oct p 144-154
- vibrating string, musical scale tone ladder, Pythagorean doctrine music and mathematics, harmonic proportions, Kepler 1967 Dec p 92-103
- vibration, noise control, constrained-layer damping, viscoelastic material 1969 Jan p 98-106
- videocameras, weather satellites, Tiros, telemetry atmospheric circulation, heat budget of Earth air masses, photographic weather maps, weather forecasting 1961 July p 80-94
- videodisc, optical-laser stylus 1975 May p 45
- vidicon, vision retina, photographic emulsion, television camera, photochemistry light image detection, electronic camera 1968 Sept p 110-117
- Vietnam war, bacteria, chemical weapons, biological weapons arms race, CS gas virus disease rickettsiae, tear gas, herbicide chemical-biological warfare 1970 May p 15-25 [1176]
- public opinion, 'silent majority' 1970 June p 17-25 [656]
- bomb craters, cratering, ecological warfare, defoliation laticization 1972 May p 20-29 [1248]
- ecological warfare by herbicides 1968 Jan p 44
- defoliation, ecological war 1970 July p 48
- defoliation suspended 1970 Aug p 46
- A A A S report on defoliation 1971 Feb p 44
- dioxin in food chain 1973 Nov p 47
- herbicide warfare 1974 Apr p 49
- Viking landers, Mars, Viking orbiters, Martian surface, Martian winds, orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
- Viking missions, interplanetary navigation, Mars, navigational accuracy, spacecraft navigation 1976 June p 58-74
- Viking navigation, polarizing 'sun stones' (?) 1967 July p 44
- Viking orbiters, Mars, Viking landers, Martian surface, Martian winds, orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
- Viking site, Newfoundland 1964 Jan p 56
- Vikings, commerce, nomads, Scandinavia, Vinland, Siegfried legend, seafaring, Svea, appraisal of 400-year Viking ascendance 1967 May p 66-78
- village-farming communities, metal artifacts, Turkey, metallurgy, copper, Neolithic archeology, man's first use of metals 7,500 B C 1970 Mar p 50-56
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- Vinland, commerce, Vikings, nomads, Scandinavia, Siegfried legend, seafaring, Svea, appraisal of 400-year Viking ascendance 1967 May p 66-78
- viola, bass, cello, violin, Chladni patterns, music, musical instruments, physics of violins 1962 Nov p 78-93
- violence, aggression, delinquency, motion picture film, television, catharsis, effects of observing filmed violence 1964 Feb p 35-41 [481]
- U S commission on causes and prevention 1970 Feb p 42
- violet shift, stellar rotation, Doppler effect, stellar evolution, spectroscopy, red shift, correlation of rotational velocity with mass 1963 Feb p 46-53
- violin, bass, cello, viola, Chladni patterns, music, musical instruments, physics of violins 1962 Nov p 78-93
- violin acoustics, varnish not significant 1969 Feb p 45
- violin bow, friction, stick-slip friction, bearing, lubrication, uses and prevention of friction 1956 May p 109-118
- viral disease, antibodies, hepatitis A, hepatitis B, transfusion hepatitis, viral hepatitis, Australian antigen (B), viral structure 1977 July p 44-52 [1365]
- viral DNA, gene culture, polyoma virus, cell transformation, SV40 virus, viral carcinogenesis 1967 Apr p 28-37 [1069]
- bacteria, proteolysis, infection, DNA sequence, restriction enzymes, bacterial recognition and rejection of exotic DNA 1970 Jan p 88-102 [1167]
- DNA, E coli, gene structure, nucleotide sequence, bacterial virus 0x174, plus-and-minus method 1977 Dec p 54-67 [1374]
- viral hepatitis, antibodies, hepatitis A, hepatitis B, transfusion hepatitis, Australian antigen (B), viral structure, viral disease 1977 July p 44-52 [1365]
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- viral vaccines, adenoviruses, cancer virus, herpes virus, virus disease 1973 Oct p 26-33
- Virgo cluster, Andromeda Galaxy, galactic clusters, local clusters, M81 cluster 1977 Nov p 76-98 [390]
- virology, electron microscopy, cell, viruses inside cells 1953 Dec p 38-41
- complement-fixation test, neutralization test, hemagglutination test 1955 Mar p 60-70
- bacteriophage, recombinant DNA, provirus, modified virus 1955 Apr p 92-98 [24]
- mutation, tobacco mosaic virus, amino-acid sequence 1955 July p 74-78 [59]
- bacteriology, biological pest control, agricultural pest, insecticide, insect physiology, entomology, living insecticides 1956 Aug p 96-104
- epidemiology, immunology, influenza virus, public health, structure and biochemistry of flu virus 1957 Feb p 37-43
- horticulture, 'tulipomania', benign virus infection 1960 Aug p 138-144

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1962 Oct p 30-37
- population redistribution, U S census, human migration, suburbanization, U S census of 1970
1971 July p 17-25
- 148 million
1949 Mar p 26
- 50-year growth
1950 Apr. p 31
- U.S. Supreme Court, factorial analysis
1951 July p 29
- U.S.-U.S.S.R. atomic controls deadlock, mediators intervene
1948 Nov p 24
- U.S. whites, public opinion, American Negro, desegregation, attitude survey, racial segregation, sociology, longitudinal attitude study
1956 Dec p 35-39
- desegregation, racial integration, public opinion, attitude survey, American Negro, longitudinal attitude study reported in 1956
1964 July p 16-23 [623]
- desegregation, racial integration, American Negro, attitude survey, public opinion, longitudinal attitudes study
1971 Dec p 13-19 [673]
- racial discrimination, prejudice, American Negro, public opinion, attitude survey, segregation, integration, longitudinal attitude study
1978 June p 42-49 [707]
- U.S.S.R.: Union of the Soviet Socialist Republics
- U.S.S.R., particle accelerator, research funding, high-energy physics
1956 Aug p 29-35
- economic development, industrial technology
1968 Dec p 17-23
- science education, research and development, science funding, science manpower, U S S R science policy
1969 June p 19-29
- computer technology, software, Comecon, integrated circuits
1970 Oct p 102-108
- manpower growing
1953 Jan p 31
- Lysenko resurgent, geneticists barred from international meeting
1958 Nov p 60
- research and development, OECD report
1969 Apr p 48
- U.S.S.R. astronomy, appraised by Struve
1953 May p 56
- U.S.S.R. atomic bomb, arms race, Acheson-Lilienthal plan, Baruch plan, U S negotiating position at termination of 'atomic monopoly'
1949 Nov p 11-13
- Truman announcement
1949 Nov p 26
- uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery
1950 Mar p 52-55
- progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction
1958 Apr p 40-46 [163]
- V
- v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles
1952 Jan p 22-27
- vaccination, eye disease, trachoma, virus disease, epidemiology, immunization
1964 Jan p 79-86
- cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner
1976 Jan p 112-117
- medical history, smallpox eradication, W H O campaign
1976 Oct p 25-33
- vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization
1953 Apr p 27-31
- poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation
1953 July p 25-29
- poliomyelitis virus, epidemiology, antibody persistence
1955 Apr p 42-44
- congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella
1966 July p 30-37
- chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbal medicine
1973 Sept p 102-112
- vaccine sought, N S F, rubella, measles vaccine, Haworth director
1963 May p 74
- vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, bacteriophage, structure of viruses
1963 Jan p 48-56
- vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion pump, cryogenic pump, mass, vacuum down to 10^{12} mm of mercury
1962 Mar p 78-90
- vacuum distillation, essential oils, oleoresins, steam distillation, flavors, perfumes
1953 Aug. p 70-74
- vacuum furnace, metallurgy, crystal structure, zone melting, pure metals
1954 July p 36-40
- vacuum pump technology, high vacuum, achievement and uses of vacuum in laboratory
1950 May p 20-24
- vacuum tube, solid state physics, transistor, electronics, germanium, diode, triode, dawn of solid-state electronics
1948 Sept p 52-55
- transistor, junction transistor, electronics, computer technology, forecast of a 'revolution in electronics'
1951 Aug p 13-17
- radio, triode, De Forest, Marconi, Fleming valve, diode, rectification
1965 Mar p 92-100
- De Forest's 1906 contributions
1965 Mar p 92-100
- cathode-ray tube, Crookes tube, oscilloscope, Ferdinand Braun's invention
1974 Mar p 92-101
- Vaiont valley disaster, rockslide into reservoir
1965 July p 48
- value judgments, behavior, pleasure
1968 Dec p 84-90 [518]
- Van Allen belts, artificial satellite, solar particles, cosmic radiation, telemetry, geomagnetism, radiation belts, space exploration, mapping of radiation belts by Explorer satellites
1959 Mar p 39-47 [248]
- artificial satellite, ionosphere, climate, aurora borealis, orbital motion
1959 Aug p 37-43 [851]
- meteorology, solar particle influence on Earth atmosphere
1959 Aug p 37-43 [851]
- solar corona, zodiacal light, solar prominences, solar atmosphere, ionospheric storms, Earth in the Sun's atmosphere
1959 Oct p 64-71
- artificial satellite, geomagnetism, Lorentz force, magnetosphere, solar radiation, radiation belts, aurora, physics of Van Allen belts
1963 May p 84-96
- aurora borealis, solar wind, solar corona, Earth magnetic field, comet tails, magnetic storms
1964 Apr p 66-76
- Jupiter, radio emissions, magnetic field, origin of Jovian radio waves
1964 July p 34-42
- cosmic radiation, interplanetary fields, interplanetary particles, magnetosphere, solar flares, solar wind, aurora, solar system
1975 Sept p 160-173
- Explorer VI and VII data
1960 Mar p 90
- Explorer XII, Injun I data
1962 Mar p 68
- Van de Graaf generator, particle accelerator, electrostatic belt generator, charge-changing accelerator, negative ion
1970 Aug. p 24-33
- Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force
1948 Oct p 14-17
- vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24
1972 July p 52-60
- vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator
1968 May p 38-46
- variable host, germ theory, immunity, infection, germ-free animals
1955 May p 31-35
- variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter
1952 Mar p 56-59
- stellar composition, organ pipe analogy, stellar brightness
1975 June p 66-75
- interstellar matter, stellar formation, infrared radiation, lithium, youngest stars?
1967 Aug p 30
- variolation, cowpox, medical history, smallpox immunization
1976 Jan p 112-117
- vaccination, 'vaccination' before Jenner
1976 Jan p 112-117
- vascular surgery, artery prostheses, cardiovascular disease
1976 Jan p 112-117
- atherosclerosis, repair of vascular disease damage
1961 Apr p 88-104
- cardiovascular surgery surgical stapler stapling technic for joining vessels
1962 Oct p 48-56
- vasoconstriction, hypertension, venous system, plethysmography, veins actively dilating and constricting blood reservoir
1968 Jan p 86-96 [1093]
- vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting techniques
1961 Nov p 144-154
- vector, algebra, mathematics, science history, matrix
1964 Sept p 70-78
- vehicular traffic flow, mathematical model, urban transport traffic theory modeling auto flow patterns
1963 Dec p 35-43
- veins, hypertension, venous system, plethysmography, vasoconstriction actively dilating and constricting blood reservoir
1968 Jan p 86-96 [1093]
- velocity, measurement, Brownian motion, time, uncertainty principle
1950 July p 48-51 [255]
- Planck's constant, limits of measurement
1950 July p 48-51 [255]
- flame chemistry, chemical kinetics, flash tube, flame jet, heat, luminosity spectroscopy
1953 May p 29 35

- eye, retinal pigments, color perception, cone cells, trichromaticity
implies three cone pigments 1962 Nov p 120-132 [139]
- eye, visual cortex, retina, optic nerve, organization of sight into vision
1963 Nov p 54-62 [168]
- nervous system, reflex arc, motor neuron, interneuron, animal
behavior, small neuron systems as models for study
1967 May p 44-52 [1073]
- learning, sensory perception, touch, visual perception dominates touch
1967 May p 96-104 [507]
- visual pigments, opsin, rhodopsin, isomerism, vitamin A
1967 June p 64-76 [1075]
- eye movement, saccades, visual attention, fovea, human eye, visual
fixation, experiments with eye-marker camera
1968 Aug p 88-95 [516]
- retina, photographic emulsion, vidicon, television camera,
photochemistry, light, image detection, electronic camera
1968 Sept p 110-117
- photosynthesis, photoperiodicity, visual pigments, phytochrome,
chlorophyll, retina cells, plant growth, light and living matter
1968 Sept p 174-186
- light, image processing, visual perception, imagery, eye and brain in
visual perception 1968 Sept p 204-214 [519]
- eidetic images, child psychology, perceptual memory, 'photographic'
memory 1969 Apr p 36-44 [522]
- perception, retinal image-processing, visual perception, retina, visual-
cell types 1969 May p 104-114 [1143]
- afterimages, phosphenes, perception, prosthesis for blind, self-
illumination of visual centers 1970 Feb p 82-87
- aging, cataract, eye lens, human eye 1975 Dec p 70-81
- binocular vision, random-dot stereograms, stereogram experiments,
visual perception 1976 Mar p 80-86 [569]
- visual adaptation, color vision, vision, human eye
1962 May p 62-72 [465]
- visual attention, vision, eye movement, saccades, fovea, human eye, visual
fixation, experiments with eye-marker camera
1968 Aug p 88-95 [516]
- visual cells, rod cells, cone cells, autoradiography, protein synthesis,
renewal mechanisms in retinal cells 1970 Oct p 80-91
- 'visual cliff', depth perception, infant, comparative psychology, visual
perception, genesis of depth perception 1960 Apr p 64-71
- visual communication, information theory, painting, sculpture,
architecture, communication, trademarks, language, visual stimulus,
visual signals 1972 Sept p 82-96 [548]
- visual cortex, visual perception, visual scanning, retina, how we see
straight lines 1960 June p 121-129
- human eye, optical illusion, vision, sensory perception, 'after effects',
'cortical satiation' 1962 Jan p 44-49
- eye, retina, optic nerve, vision, organization of sight into vision
1963 Nov p 54-62 [168]
- binocular vision, depth perception, eye, neurophysiology, optic chiasm,
stereopsis 1972 Aug p 84-95 [1255]
- brain circuitry, embryonic development, nerve cells, neuronal
specificity, *Xenopus laevis* 1973 Feb p 26-35 [1265]
- albinism, gene mutation, Siamese cat, white mink, white tiger, cross-
eyed trait 1974 May p 44-54 [1294]
- brain circuitry, eye movement, neurophysiology, pons, visual
processing, visual cells in pons 1976 Nov p 90-98
- cat response to parallax 1968 Feb p 52
- visual discrimination, color vision, learning, conditioned behavior,
behavioral psychology, Skinner box, pigeons conditioned to respond
to discrete wavelengths of light 1958 Jan p 77-82 [403]
- visual fixation, vision, eye movement, saccades, visual attention, fovea,
human eye, experiments with eye-marker camera
1968 Aug p 88-95 [516]
- visual illusion, *see* optical illusion
- visual memory, image processing, memory, perception, linguistic material,
remembering what is seen 1970 May p 104-112 [528]
- visual perception, 'Ames room', distance perception, motion perception,
optical illusion, size perception, illusions as clues to organization of
perception 1951 Aug p 50-55
- nerve regeneration, vision, learning, embryonic development, inborn
'hard wiring' of nerve circuitry 1956 May p 48-52 [1090]
- horseshoe crab, vision, *Lumulus*, ommatidia, optic nerve, horseshoe
crab as laboratory animal 1956 Dec p 113-122
- kinesthetic memory, spatial orientation, neuropsychology, perception
of the upright 1959 Feb p 50-56 [410]
- 'Ames room', personality, aniseikonic lenses, anxiety, 'Honi'
phenomenon, emotional relationships condition perception
1959 Apr p 56-60
- color vision, 'long' and 'short' wavelengths in color perception
1959 May p 84-99 [223]
- 'visual cliff', depth perception, infant, comparative psychology, genesis
of depth perception 1960 Apr p 64-71
- visual scanning, retina, visual cortex, how we see straight lines
1960 June p 121-129
- depth perception, vision, learning, innate and learned response to
visual cues 1961 Mar p 138-148
- form perception, learning, perception, innate or learned form
perception 1961 May p 66-72 [459]
- retina, vision, learning, Gestalt psychology, stabilized retinal images,
evidence for perceptual theories 1961 June p 72-78 [466]
- learning, Fechner's law, psychophysics, Skinner box, behavioral
psychology, conditioned behavior, pigeon perception
1961 July p 113-122 [458]
- moon illusion, apparent distance theory, Gestalt psychology,
explanation of a familiar illusion 1962 July p 120-130 [462]
- color vision, constancy effect, neutral colors
1963 Jan p 107-116 [474]
- visual systems, scallop, surf clam, inhibitory impulse, shadow-sensitive
receptors, invertebrate 'eyes' as models for study of organization of
sensation in perception 1963 July p 122-130
- amphibian, frog, color vision, retina, retinal image-processing, retinal
processing of visual sensation 1964 Mar p 110-119
- optical illusion, illusion of movement, apparent movement, motion
perception 1964 Oct p 98-106 [487]
- pattern recognition, computer graphics, stereoscopic images, texture
discrimination, depth perception 1965 Feb p 38-48 [318]
- binocular vision, infant development, operant conditioning,
developmental psychology, information processing, space, size,
shape perception in human infants 1966 Dec p 80-92 [502]
- vision, light, image processing, imagery, eye and brain in visual
perception 1968 Sept p 204-214 [519]
- optical illusion, size constancy, distortion, pictures as objects, illusions
arise from normally useful mechanisms 1968 Nov p 66-76 [517]
- perception, vision, retinal image-processing, retina, visual-cell types
1969 May p 104-114 [1143]
- eye movement, pattern recognition, scan-path recordings, serial-
recognition hypothesis 1971 June p 34-43 [537]
- depth reversal, Necker cube, optical illusion, reversing figures
1971 Dec p 62-71 [540]
- contour perception, contrast perception, Mach bands, neuronal
response, optical illusion, Craik-O'Brien effect
1972 June p 90-101 [543]
- bilingualism, dyslexia, eye movement, grammatical relations, language,
reading, perception of words 1972 July p 84-91 [545]
- cultural differences, split-style art, cultural context of perception,
Hudson test 1972 Nov p 82-88 [551]
- brain circuitry, mammalian brain, nerve signals, sensory systems,
stimulus localization, superior colliculus in integration at brain
function 1972 Dec p 72-82 [553]
- brain hemispheres, cerebral dominance, left-hemisphere functions,
music perception, right-hemisphere functions, auditory perception
1973 Mar p 70-78 [554]
- information theory, computer graphics, 'block portraits', computer
enhancement, pattern recognition, recognition of faces
1973 Nov p 70-82
- disoriented figures, form perception, retinal orientation
1974 Jan p 78-85 [557]
- animal behavior, escape response, neurophysiology, toad, visually
guided behavior 1974 Mar p 34-42 [1293]
- color fusion, color scission, perceptual transparency, physical
transparency, optical illusion, transparency
1974 Apr p 90-98 [559]
- art, Escher's prints, optical illusion, perception of pictures, psychology
1974 July p 90-104 [560]
- contrast perception, spatial frequency, visual thresholds
1974 Nov p 106-114 [1308]
- pattern recognition, figure-ground perception, texture discrimination,
perceptual limitations 1975 Apr p 34-43 [563]
- eye, motion perception 1975 June p 76-88 [564]
- binocular vision, random-dot stereograms, stereogram experiments,
vision 1976 Mar p 80-86 [569]
- contour perception, optical illusion 1976 Apr p 48-52 [570]

- interferon, virus interference, broad-spectrum natural anti-viral agent
1961 May p. 51-57 [87]
- adenoviruses, X-ray diffraction, poliomyelitis virus, polyoma virus,
herpes virus, influenza virus, vaccinia virus, tobacco mosaic virus,
bacteriophage, structure of viruses
1963 Jan. p. 48-56
- interferon, virus interference, nucleic acid, infection, anti-viral agent
found to act against foreign nucleic acid
1963 Oct. p. 46-50 [166]
- bacteria, flies, epidemiology, maggot, dysentery, disease vector
1965 July p. 92-99
- viral nucleic acid and infection
1961 Oct. p. 82
- Virus valley, Peru, New World archeology
1954 Aug. p. 28-34
- virus, herpes simplex, chick-embryo culture, symbiosis
1949 Nov. p. 50-53
- biochemistry, enzymes, citric-acid cycle, metabolism, co-enzymes, sulfa
drugs, antibiotics, science, biochemistry 1900-1950
1950 Sept. p. 62-68
- aster yellow, leafhopper, virus infective to plant and insect
1953 June p. 78-86
- life cycle, reproduction, bacteriophage, provirus
1954 Mar. p. 34-37
- tobacco mosaic virus, protein 'overcoat', nucleic acid 'core',
dissociation and reconstitution of infective particles
1956 June p. 42-47
- cell anatomy, spermatozoon, ovum, science history, cytology, muscle
cell, plant cell, connective tissue cell, introduction to single-topic
issue on the living cell
1961 Sept. p. 50-61 [90]
- bacteriology, microorganisms, PPLO, electron microscopy, cytology,
smallest free-living cells
1962 Mar. p. 117-126 [1005]
- leukemia, leukocyte, cancer, chemotherapy, ionizing radiation, Down's
syndrome, origin and treatment of lymphocytic and granulocytic
leukemia
1964 May p. 88-96
- TMV in cross-section
1952 Jan. p. 36
- hardy viruses, in test tube 35 years
1953 Mar. p. 52
- T4 virus assembled
1967 May p. 56
- virus action, bacteriophage structure, gene expression, latent viruses,
provirus, coexisting viruses, viral genes in host chromosome
1976 Dec. p. 102-113 [1347]
- virus antigens, antibodies, antigen complement, immune response,
lymphocytes, virus disease, autoimmune disease, allergic reaction,
immune-complex disease, glomerulonephritis, lymphocytic
choriomeningitis, serum sickness
1973 Jan. p. 22-31 [1263]
- virus culture, polio virus, human embryo tissue
1955 Sept. p. 76
- virus-destroying bacterium
1959 Sept. p. 108
- virus disease, antibiotics, aureomycin, rickettsial disease, bacterial
infection, 'broad spectrum' antibiotic
1949 Apr. p. 18-23
- antibiotics, infectious disease, toxicity, bacterial resistance, status of
new medical technology
1949 Aug. p. 26-35
- encephalitis, animal vectors, influenza virus
1949 Sept. p. 18-21
- common cold, human subjects, chilling test, Salisbury, England, study
1951 Feb. p. 39-45
- influenza virus, bacteriophage, poliomyelitis virus, bacteriophage,
antigen-antibody reaction, immunity, infection, host-specificity,
viruses in infection and in the laboratory
1951 May p. 43-51
- carcinogenesis, polyoma virus, recombinant DNA, 'temperate'
infection, genetic transduction, viral induced malignancy
1960 Nov. p. 63-71 [77]
- common cold, tissue culture, 20 strains cultured
1960 Dec. p. 88-102
- Lysenko, genetics, potato virus, vernalization, agronomy, the Lysenko
affair
1962 Nov. p. 41-49
- eye disease, trachoma, vaccination, epidemiology, immunization
1964 Jan. p. 79-86
- congenital anomalies, purpura, vaccine, teratogenesis, pregnancy,
congenital rubella, rubella
1966 July p. 30-37
- brain disease, scrapie, kuru, Chédiak-Higashi syndrome, animal
vectors, multiple sclerosis
1967 Jan. p. 110-116
- bacteria, chemical weapons, biological weapons, Vietnam war, arms
race, CS gas, rickettsiae, tear gas, herbicide, chemical-biological
warfare
1970 May p. 15-25 [1176]
- interferon induction, poly I:C, synthetic RNA
1971 July p. 26-31 [1226]
- antibodies, antigen complement, immune response, lymphocytes, virus
antigens, autoimmune disease, allergic reaction, immune-complex
disease, glomerulonephritis, lymphocytic choriomeningitis, serum
sickness
1973 Jan. p. 22-31 [1263]
- adenoviruses, cancer virus, herpes virus, viral vaccines
1973 Oct. p. 26-33
- degenerative diseases, immune system, slow virus infection, kuru,
scrapie, cancer virus, herpes virus
1974 Feb. p. 32-40 [1289]
- carcinogenesis, cancer epidemiology, environmental carcinogens,
immune response, gene mutation, cancer prevention
1975 Nov. p. 64-78 [1330]
- interferon induction, medical care
1977 Apr. p. 42-50
- antigen variation, disease, medical history, influenza virus, encephalitis,
pandemics, animal vectors, Hong Kong flu, swine flu
1977 Dec. p. 88-106 [1375]
- carcinogenesis, integrated DNA
1968 Nov. p. 56
- see also: slow virus infection
- virus interference, interferon, virology, broad-spectrum natural anti-viral
agent
1961 May p. 51-57 [87]
- interferon, virology, nucleic acid, infection, anti-viral agent found to
act against foreign nucleic acid
1963 Oct. p. 46-50 [166]
- virus laboratory, at Berkeley
1952 Dec. p. 28
- virus multiplication, DNA, genetic code, poliomyelitis virus, protein
synthesis, RNA, virus structure
1975 May p. 24-31
- virus π X 174, DNA synthesis, cell-free system, DNA polymerase,
activated nucleotides, first test-tube synthesis of biologically active
DNA
1968 Oct. p. 64-78 [1124]
- virus particles, bacteriophage, gene mapping, amber mutants
1965 Feb. p. 70-78 [1004]
- rods and spheres
1956 May p. 62
- virus shell, virus structure, polyhedra, bacteriophage, assembly of T4
subunits from core out
1966 Dec. p. 32-39 [1058]
- virus structure, protein 'overcoat', DNA
1954 Dec. p. 62-70 [32]
- polyhedra, virus shell, bacteriophage, assembly of T4 subunits from
core out
1966 Dec. p. 32-39 [1058]
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